

AMERICAN NURSERYMAN

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

DECEMBER 15, 1953



Ilex Crenata Microphylla

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President

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AMERICAN NURSERYMAN

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The Nurseryman's Forte: To Make America More Beautiful and Fruitful

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CONTENTS

| | |
|--|----|
| Varied Topics at Holly Meeting | 7 |
| By Harry W. Dengler | |
| Horticultural Congress Reviews Progress, Outlines Future Plans ... | 9 |
| By Daniel Dowd | |
| Plastic Wigwam Aids in Outdoor Propagation | 10 |
| By Victor J. McNitt | |
| Manufacturing Sideline Keeps Nursery Active on Rainy Days ... | 11 |
| By William T. Dikeman | |
| Plant Notes Here and There | 14 |
| By C. W. Wood | |



| | | | |
|----------------------------------|----|------------------------------------|-------|
| Editorial | 6 | Coming Events | 32 |
| —Merry Christmas | 6 | —Oklahoma Convention | 33 |
| —Autumn Color | 6 | —Connecticut Course | 34 |
| —United Interests | 6 | —Long Island School | 34 |
| —Credulity | 6 | —Arborists to Meet | 34 |
| Tips for Better Landscapes | 12 | Obituary | 35 |
| —Ingenuity in Landscaping | 12 | —Charles Edward Judson | 35 |
| New Pot Shipping Rules | 22 | —John Robert Johnson | 35 |
| Cover Illustration | 23 | California Association of Nursery- | |
| —Ilex Crenata Microphylla | 23 | men | 43 |
| Dallas Group Proposes Licensing | | —Southern Chapters Hold | |
| Nurserymen | 24 | Holiday Celebrations | 43 |
| Dallas Christmas Party | 24 | —San Joaquin Meets | 44 |
| Connecticut Award Given | 25 | —Arbor Day Plans Begun | 45 |
| This Business of Ours | 26 | Oklahoma City Notes | 51 |
| —Half Hardy Plants | 26 | Some Mailing Rates Up | 51 |
| Tulsa, Okla., Notes | 27 | Annual Index | 64-65 |
| | | —Vol. XCVII | 64 |
| | | —Vol. XCVIII | 65 |

INDEX TO ADVERTISERS

| | | | | | |
|---------------------------------------|-------------------|---------------------------------------|----------|---|-------|
| Alanwold Nursery | 16 | Gresham's Nursery | 35 | Onaga Nursery Co. | 25 |
| Allen Co. | 58 | Grimshaw Nursery | 41 | Oregon Bulb Farms | 44 |
| Allis-Chalmers Mfg. Co. | 19 | Grootendorst & Sons, F. J. | 37 | Owen & Son, T. G. | 34 |
| American Bulb Co. | 31 | Gro-Quick Sales | 53 | | |
| American Florist Supply Co. | 56 | Growers Exchange, Inc. | 31 | Pacific Northwest Rose Nursery | 40 |
| American Landscape School | 63 | Growers Sign Service | 60 | Pallack Bros. Nurseries, Inc. | 23 |
| Andrews Nursery Co. | 30 | | | Pearce Seed Co. | 23 |
| Armintrout's Evergreen Nursery | 29 | Half Moon Mfg. & Trading Co. | 54 | Peekskill Nursery | 23 |
| Arp Nursery Co. | 38 | Halpern Bros. | 56 | Peterson & Dering | 42 |
| Arterburn Nursery, Paul | 35 | Harrington, Edwin | 56 | Plant Marvel Laboratories | 63 |
| Atkin's Sons, L. | 54 | Heamskerk & Co. | 38 | Pontiac Nursery Co. | 28 |
| Ayer-Line Industries, Inc. | 55 | Henry Nurseries | 33 | Portland Whlse. Nursery Co. | 45 |
| | | Herbst Bros. | 1 | Possum Hollow Nurseries | 16 |
| Bagatelle Nursery | 22 | Hess' Nurseries | 21 | Premier Peat Moss Corp. | 53 |
| Bailey Nurseries, J. V. | 30 | Hill Nursery Co., D. | 68 | Premier Southern Ticket Co., Inc. | 62 |
| Beardslee Nursery | 26-30-32 | Hobbs & Sons, Inc., C. M. | 27 | Presto Mfg. Co. | 62 |
| Benedict Nursery Co. | 40 | Homestead Nurseries | 37 | Princeton Nurseries | 22 |
| Berryhill Nursery Co. | 29 | Hoogendoorn, C. | 16-22-23 | | |
| Blackwell Nurseries | 36 | Horsford, William Crosby | 31 | Rambo's Whlse. Nurseries, L. | 40 |
| Bobbink Nurseries, Inc. | 14 | Howard & Smith, Inc. | 41 | Ravensberg, Maurice C. | 37 |
| Boulevard Nurseries | 26 | Howards of Hemet | 5 | Reynolds, Harry H. | 39 |
| Boyd Nursery Co., Inc. | 31-33 | Humphreys Landscape Service | 36 | Rich & Sons Nursery | 42 |
| Broadway Machine & Mfg. Co. | 63 | | | Rickert Nurseries | 20 |
| Brookfield Gardens | 18 | Ilggenfritz Nurseries, Inc. | 32 | Riegel Plant Co. | 38 |
| Brookville Nurseries | 20 | | | Robinson Sales Agency, E. D. | 14-22 |
| Brouwer's Nurseries | 24 | Jewell Nurseries | 30 | Roseway Nurseries | 44 |
| Brown Deer Nurseries | 27 | Jiffy Balling Co. | 62 | Rough Bros. | 57 |
| Brownell Rose Research Gardens | 20 | Johnston, Wm. A. | 58 | Royer Foundry & Machine Co. | 55 |
| Bryant's Nurseries | 28 | | | | |
| Bulk's Nurseries | 14 | Kallay Bros. Co. | 30 | S-W Supply Co. | 58 |
| Buntings' Nurseries | 17 | Kelly Agricultural Products Co. | 56 | Scarff's Nursery | 28 |
| Burr & Co., Inc., C. R. | 16 | Kelly Bros. Nurseries, Inc. | 40 | Seaman Bag Co. | 40 |
| | | Krieger's Wholesale Nursery | 38-40 | Semmes Nursery | 35 |
| Canale's Forest Nursery | 20 | Kuemmerling, Inc., Karl | 56 | Shepard Nurseries | 21 |
| Carolina Floral Nursery | 36 | | | Sheridan Nurseries, Ltd. | 37 |
| Carpenter & Co., George B. | 62 | LaBarr's Rhododendron Nursery | 14 | Sherman Nursery Co. | 26 |
| Cartwright Nurseries | 31 | Laird's Nurseries | 36 | Sherwood Nursery Co. | 45 |
| Champion Sprayer Co. | 58 | Laketon Nurseries | 32 | Sizemore, Charles | 60 |
| Chase Co., Benjamin | 61 | Lansing Specialties Mfg. Co. | 60 | Skinner Irrigation Co. | 62 |
| Classified Ads | 46-47-48-49-50-51 | Leeland Farms | 35 | Smith Corp., W. T. | 23 |
| Clearfield Bituminous Coal Corp. | 20 | Le Feber & Co. | 37 | Sneed Nursery Co. | 30 |
| Cloverset Flower Farm | 15 | Leghorn's Evergreen Nursery | 26 | Spek Nurseries, Jan | 37 |
| Comet Envelope & Paper Co., Inc. | 54 | Leonard & Son, A. M. | 56 | Springbrook Gardens | 31 |
| Commercial Nursery Co. | 36 | Lindig Mfg. Co. | 61 | Stassen Floral Gardens | 24 |
| Community Industries Assn. | 88 | Lindley Nurseries | 36 | Stedman Nurseries | 14 |
| Congdon's Wholesale Nursery | 40 | Lovett, Lester C. | 18 | Stirling's Nurseries | 42 |
| Conigisky, B. F. | 62 | | | Stubbly Laboratory | 24 |
| Co-operative Rose Growers | 38 | Matthews Nursery | 27 | Summit Nurseries | 30 |
| Cottage Gardens | 30 | McGill & Son, A. | 45 | Suncrest Evergreen Nurseries | 24 |
| Crystal Soap & Chemical Co. | 61-63 | McIninch Greenhouses | 28 | | |
| Cumberland Plateau Nursery | 36 | Meehan Co., Thomas B. | 18 | Tankard Nurseries | 34 |
| Curtis Nurseries | 21 | Melson Fertilizer Co., Inc. | 58 | Tingle Printing Co. | 60 |
| | | Mennes Nurseries, Menno | 61 | | |
| Darling Co., J. L. | 40 | Meyer's Nursery, M. | 28 | Ullman Co. | 60 |
| Dayton Fruit Tree Label Co. | 54 | Milton Nursery Co. | 42 | | |
| Deerfield Nurseries | 18 | Mitsch Nursery | 44 | Van Veen Nursery | 44 |
| Del-Mar-Va Nurseries | 23 | Monrovia Nursery Co. | 13-40 | Vanderbrook Nurseries | 22 |
| Descanso Distributors, Inc. | 39 | Monsanto Chemical Co. | 67 | Vennard Nursery | 28 |
| Doerfler & Sons, F. A. | 44 | Montebello Rose Co. | 40 | Vernalen Nursery Co. | 33-37 |
| Doornbosch Bros., Inc. | 38 | Moorestown Gardens | 43 | Verkade's Nurseries | 22 |
| Doty & Doerner, Inc. | 45 | Moran, E. C. | 38 | Vitamin Institute | 40 |
| | | Morning Star Nursery | 34 | Vuyk Van Nes Nurseries | 37 |
| Eastern Shore Nurseries, Inc. | 18 | Mosty Bros. Nursery | 34 | | |
| Eccles Nurseries | 16 | Mount Arbor Nurseries | 2 | W.W. Grinder Corp. | 66 |
| Edco Corp. | 54 | Mount Hood Nursery | 42 | Wade & Gaffon Nurseries | 33 |
| Elmer Roses | 44 | Mount Vernon Nursery | 45 | Want Ads | 52 |
| Evergreen Nursery Co. | 32 | Musser Forest, Inc. | 21 | Waynesboro Nurseries | 35 |
| | | | | Wayside Gardens | 32 |
| Fafard, Inc., Conrad | 59 | Natorp Co., W. A. | 29 | Weeks Whlse. Rose Grower | 43 |
| Fairview Evergreen Nursery | 22 | New Amsterdam Import Co. | 61 | Weller Nurseries Co., Inc. | 29 |
| Felins Tying Machine Co. | 63 | New Yorker Bag & Burlap Co. | 66 | Western Association of Nurserymen | 32 |
| Forest Nursery Co. | 34 | Newport Nursery Co. | 28 | Westminster Nurseries | 18 |
| Foster Nurseries, Inc. | 40 | Nursery Specialty Products, Inc. | 66 | Whalley, J. B. | 39 |
| Fraser Nursery, Samuel | 25 | Nurserymen's Exchange | 39 | Wight Nurseries | 36 |
| | | | | Williams, Isaac Langley | 23 |
| Garden Shop, Inc. | 54 | | | Williams & Harvey Nurseries | 63 |
| Gardner's Nurseries | 18 | | | Willis Nursery Co. | 25 |
| Geiger Co., E. C. | 58 | | | Willowbend Nursery | 26 |
| Gellico, Inc. | 56-62 | | | Wilmot Holly Co. | 21 |
| General Electric Co. | 58 | | | Wire Basket Co. | 62 |
| General Package Corp. | 58 | | | Wood Products Co. | 56 |
| George Garden Tool | 66 | | | Wrightwood Floral Co., Inc. | 34 |
| Gill Mfg. Co. | 57 | | | | |
| Gledhill Road Machinery Co. | 60 | | | York Modern Corp. | 59 |

Forms for the January 1 issue will close Friday, December 11.

Forms for the January 15 issue will close Thursday, December 31.

Mail copy to arrive at Chicago by these dates — no later!



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AMERICAN NURSERYMAN

F. R. KILNER
Editor and Publisher

KENNETH A. BRENT
Managing Editor

Editorial

Merry Christmas

As the Yuletide approaches once again, one's thoughts review the year past with thankfulness for the peace, prosperity and goodwill it has brought. The nation has seen its peacetime goals come nearer. This industry, in common with the country's business, has enjoyed prosperity, and the citizens, by and large, have passed a year of beneficence. With feelings of gratitude and humility we all have reason to participate in the spirit of Christmas time.

Like others, the staff of this magazine looks back on a gratifying year, for the larger issues published, for the wider circle of readers and for their interest in and assistance toward the improvement of the periodical. So to all our readers, and especially to those who have participated in the magazine's efforts in one way or another during the year past, we wish the cheeriest of Christmas greetings!

AUTUMN COLOR

Too few inhabitants of the eastern half of the United States are aware of their unique privilege of viewing the astounding autumn colorings of many of our trees. Only in parts of eastern Asia and in a limited area in Europe does autumn transform the green leaves to the reds, yellows, oranges and purples that we enjoy in this country. European travelers who wrote books critical of what they saw in America a century ago could not refrain from expressing their admiration of the autumn foliage tints here, quite unrivaled in their home lands.

Not enough attention is paid to this autumn coloring of trees selected for landscape planting nowadays. The oaks and the maples do not fit in many places, but there are smaller trees which go well with current architecture and will add much interest to the home grounds in more than one season of the year. Their qualifications as to hardiness

limit the use of some in the northern part of this country, but some are to be found in higher latitudes than are commonly supposed. The tulip poplar and the sassafras can be found in the vicinity of Chicago, though they are more usually allocated in mind to the latitude of St. Louis and the Ohio valley.

Besides the golden yellow and the flamboyant red respectively flaunted in autumn by those two trees, striking coloring can be obtained by planting the Amur maple; sour gum, or tupelo, and the eastern redbud, to mention but a few.

Shrubs that show similarly striking autumn colors include the winged euonymus, Korean barberry, large fothergilla, witch hazel, mahonia, sumacs and some viburnums. The list can be extended if the nurseryman, as well as the landscape architect, will study the species common to his locality.

Variation in color occurs in plants of a species if grown from seeds. This is strikingly true of the winged euonymus, for example. Some of these shrubs drop their leaves when they have changed little from summer green, while others turn to that breath-taking red which gives the species the name of burning bush. To be sure of autumn color, selections must be made or else propagation must be effected in another way than seedage.

The past autumn provided an exceptional feast of color, and in another season the nurseryman's patrons may be requesting trees and shrubs to brighten their grounds. Whether they do or not, this characteristic of trees and shrubs deserves more attention than it has recently been given.

UNITED INTERESTS

As gardening, botany or horticulture generally progresses and develops, specialization takes place to a greater degree, and groups having special interests multiply as time passes. Such division and subdivision takes place among amateur gardeners, in the commercial field and among professional and scientific interests.

In the past quarter century such specialization has reached the point that the proposal of uniting the various horticultural interests through a supervisory organization has repeatedly appeared. That was the basis some years ago for the suggested

The Mirror of the Trade

United Horticulture, which has become the American Horticultural Council, which held a conference during November, of which interesting particulars appear in a report on another page.

The proposal of such union of interests has occurred at other levels, and in some places it has been achieved, or at least undertaken, locally. Examples are the horticultural societies in our large metropolitan centers, largely composed of amateur gardeners, it is true, but leavened by the active presence and activity of commercial and professional men. In another style such a proposal of union occurred a few months ago when the horticultural council of the Missouri Botanical Garden was formed at St. Louis, representing the amateur and professional horticultural interests of the area.

While the last-named instance was primarily for the purpose of integrating the work of the botanical garden itself, generally there is much that may be done by such groups through uniting the voices of various branches of horticulture. The problems of the amateurs may be presented to the commercial men, and vice versa. Organizational and procedural methods may be developed from an interchange of ideas between various groups. Most important is the possibility of uniting the gardening or horticultural interests of a community or an area for the purposes of community enlightenment and improvement in those aspects of civic and national life which may be so influenced.

CREDULITY

When listening to the extravagant claims of some plant and flower advertising on the radio, or reading it in newspapers, one sometimes wonders why so many buyers can unsuspectingly send their money or orders in response. One is inclined to agree, as to things horticultural, with the statement made by the famous physician, Sir William Osler, in regard to things medical. He said, "In all things related to disease, credulity remains a permanent fact uninfluenced by civilization or education."

To physicians such credulity is doubtless much more evident than to us, though some patent medi-

[Continued on page 31]



Dr. H. Harold Hume, right, dean emeritus of the college of agriculture at the University of Florida, displays the beautiful stained glass plaque awarded to him by the Holly Society of America for his contributions to the field of holly propagation and culture. Dr. John C. Wister, director of the Arthur Hoyt Scott Horticulture Foundation, Swarthmore College, Swarthmore, Pa., admires the plaque. Rutgers University photo.

Varied Topics at Holly Meeting

By Harry W. Dengler

A new holly pest, a new observation on prevention of aspidiotus scale, methods of avoiding frost and wind damage, uses of holly in landscape design and holly in Christmas decoration were all discussed at the fall meeting of the Holly Society of America, held at the New Jersey agriculture research station at Rutgers University, New Brunswick, N. J.

Nearly 100 members from Maryland, Delaware, Connecticut, New Jersey, Indiana, Pennsylvania, Massachusetts, West Virginia, New York, Tennessee, Florida and North Carolina participated in the activities planned for the 2-day affair.

On Thursday afternoon, November 12, Professor Robert B. Clark, department of ornamental horticulture, Rutgers University, started the meetings with a tour to Holly Hill, estate of Judge and Mrs. Thomas Brown, Locust, N. J. Judge Brown told his guests that some 36 years ago the estate was virtually a wilderness. By patience, hard work and planning, the transformation, as all could see, was miraculous. Featured

plants throughout the grounds were hundreds of native American hollies, transplanted from the surrounding wooded areas. Some of the trees were estimated to be 175 years old.

A leisurely hour was spent on the estate viewing and studying the variations which exist among the hollies. The view from the roof of the Browns' three-story mansion was breath-taking. A desk made entirely from the wood of holly salvaged from trees damaged by storms at the holly forest at Sandy Hook, N. J., was featured. Of special attention, however, was the Judge Brown holly. This is an American selection made by Dr. Charles H. Connors, vice-president of the society and a member of Rutgers University's department of ornamental horticulture. The Judge Brown holly is noted for its symmetry, its brilliant red fruits and its bright glossy foliage.

In the evening the society assembled in the informal atmosphere of the station's Log Cabin lodge for a chicken dinner. With fires blazing in two fireplaces, the members dined,

visited, made new friends and renewed acquaintances in a most leisurely and relaxing fashion.

After dinner, Harry W. Dengler, extension forester, University of Maryland agricultural extension service, College Park, Md., and retiring secretary-treasurer of the society, gave a two-hour demonstration on making Christmas decorations. Mr. Dengler, who considers himself strictly an amateur, has taught thousands of Maryland homemakers the basic principles of making attractive yet inexpensive yuletide decorations. He remarked that nurserymen were raising so many holly plants that someone had to show people how they can use their holly at Christmas time.

Business Meeting Held

The society's president, C. R. Wolf, president of the New Jersey Silica Sand Co., Millville, N. J., opened the business meeting at 9:30 a. m. Friday, November 13. He extended greetings to all and remarked that it is a never-ceasing delight to



Dr. H. Harold Hume addressing the Holly Society of America during its November meeting at Rutgers University.

him to see the interest taken in society affairs by the members. He expressed his pride in the growth of the society and its accomplishments. This, he said, is the result of the fine cooperation of all the society's members, and the work of the various committees.

"We all should feel proud of the fact," Mr. Wolf said, "that member Wilfrid Wheeler, Falmouth, Mass., was recently honored by a citation from the Garden Club Federation of Massachusetts. Mr. Wheeler was formerly commissioner of the department of agriculture for the state of Connecticut and has long been interested in protecting and promoting the use of holly in the New England area. The garden club award resulted from this work and from Mr. Wheeler's generosity in sharing his holly knowledge with all."

Retiring Secretary-treasurer Harry W. Dengler reported that the society now has 450 paid-up members and a balance of slightly over \$1,100 with no unpaid bills. Stewart McLean, holly nurseryman, Towson, Md., presented the auditor's report.

Considerable excitement was aroused by the secretary's report on the three small hollies sent to Auckland, New Zealand, during the 1950 spring meeting at the University of Maryland. These were to be planted about the spacious grounds of New Zealand's \$4 million War Museum building as trees representative of New Zealand's allies in world War II. Because the trees were small and because of New Zealand's reversed climate, the hollies had to be given special greenhouse and nursery care before permanent planting.

This fall the three hollies were judged sturdy enough. On October 14, Vice-president and Mrs. Richard Nixon, on their world-wide goodwill tour, along with Auckland's mayor, Sir John Allum, planted the trees in their permanent positions.

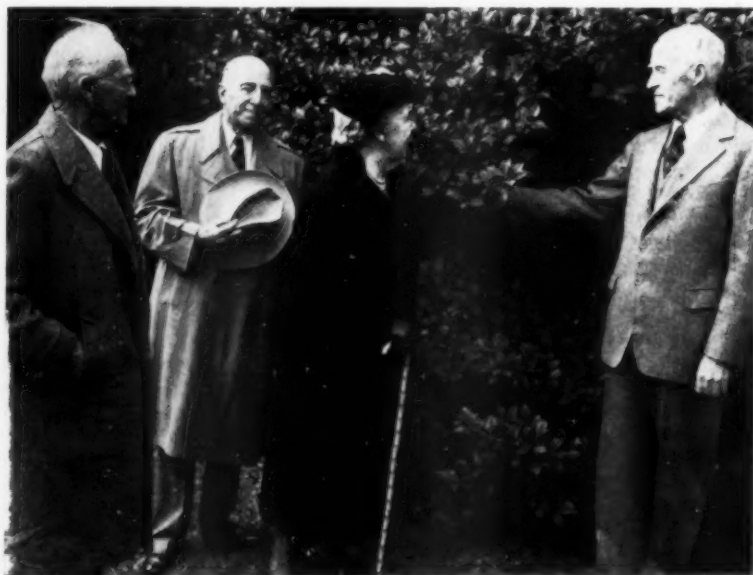
"Excellent photographs and a newspaper clipping of the tree planting ceremony were sent to me," Mr. Dengler said, "and these, along with my complete file on this subject, are in the hands of a feature writer for the District of Columbia's Washington Star. A Sunday edition story is planned by this newspaper, timed for publication about the time the

Nixons return to Washington in mid-December."

The nominating committee, of holly nurserymen Edgar S. Diehl and Gustaf Malmberg, both of Manheim, Pa., and the society's historian, Maynard M. Fulton, of Harrisburg, Pa., recommended that C. R. Wolf and Dr. Charles H. Connors, be re-elected president and vice-president and that the former secretary-treasurer, Charles A. Young, Jr., city park forester, Baltimore, Md., be reinstated in the position he had vacated when recalled to active service by the army during the Korean war. The members instructed that an unanimous vote be cast to that end.

President Wolf's first act as an officer during his new two-year term was to introduce Dr. H. Harold Hume, dean emeritus of the college of agriculture of the University of Florida, at Gainesville, Fla. Dr. Hume, he related, is the well-known author of several books and a respected writer on many horticulture subjects. He is the recipient of many medals and awards for his works in the advancement of American horticulture. It was, therefore, a difficult task to determine how the society could best honor him for his new book on hollies. Mr. Wolf had, he said, appointed a committee composed of Dr. John C. Wister, of the Arthur Hoyt Scott Horticulture

[Continued on page 53]



Judge Thomas Brown, Locust, N. J., right, shows the holly variety named for him to three holly enthusiasts. They are, left to right, Wilfrid Wheeler, Falmouth, Mass., recent recipient of an award for holly promotion from the Federated Garden Clubs of Massachusetts; C. R. Wolf, Millville, N. J., reelected president of the Holly Society, and Elizabeth White, Whitesbog, N. J., pioneer east coast holly and blueberry grower. Rutgers University photo.

Horticultural Congress Reviews Progress, Outlines Future Plans

By Daniel Dowd

The eighth annual American Horticultural Congress was held at the John Bartram hotel, Philadelphia, November 4 to 7. Sponsored by the American Horticultural Council, it reviewed the year's advances in horticulture, outlined plans for the council's effort in the coming year and provided an opportunity for an interchange of ideas and knowledge among the member organizations. A posthumous award in botany was made to Alice Eastwood, who died October 30.

It is significant that as an organization of organizations the A. H. C. is the voice of 449,000 persons who are the core of American horticulture. Member organizations include many plant societies, horticultural societies and special interest groups, such as the Garden Writers of America and the National Shade Tree Conference. Mrs. Lewis M. Hull, president, deftly guided the program so that all phases were adequately covered within the necessary limits of time.

Dr. Albert J. Irving, editor of the "Directory of American Horticulture" and past president of the Men's Garden Clubs of America, told of the preparation of the directory.

The A. H. C. has also printed a limited number of color charts that are the first attempt to provide a nontechnical and simplified system of color classification for amateurs. Technical systems are expensive and cumbersome. The simplified color

chart is compatible with other systems and is intended for field use. Dr. H. B. Tukey, of Michigan State College, said, "It is the simplest and most usable I have ever seen."

The charts are priced at \$1 per copy, 75 cents each for quantities of two to 10 and 50 cents each in quantities over 10. Further information may be had by writing Dr. G. H. M. Lawrence, Bailey Hortorium, Sage place, Ithaca, N. Y. The Flower Color Detector, as the chart is called, was developed by Prof. J. H. Wanscher, of Denmark, and is widely used in the Scandinavian countries, where one seed firm is distributing 34,000 of them with its new catalog. The A. H. C. has the American publication rights.

Advertising Standards Reviewed

The policy listed here is set forth by the A. H. C. and is printed in the "1954 Directory of American Horticulture." Advertising copy is questionable if it: (1) Sets forth exaggerated claims of productivity of plants; (2) does not specify either the size and age or the grade of plants being offered for delivery (we believe that the true nature of any plants not nursery-grown should be indicated); (3) uses illustrations of plants that do not reasonably represent the item offered either to be delivered or as the ultimate result (if the latter is illustrated, then the copy should give accurate information as to size, age or grade of the product to be delivered), and (4) uses obviously fictitious or coined names for purposes of attracting attention or to mislead the reader to believe the product is rare and new when it is not actually so.

Dr. Richard P. White, representing the American Association of Nurserymen and chairman of the committee on standards and ethics, cautioned against those who employ misleading ads, but he said that a distinction should be made between clear misstatements of fact and those which might be termed "legitimate puffery." Action taken through initiative of the A. H. C. has brought progress in the cases of several outstanding offenders.

Dr. Henry T. Skinner, director of the National Arboretum at Washington, D. C., spoke about the con-



Carl F. Wedell
President, American Horticultural Council

tinued progress on the project to devise a plant hardiness zone map for the entire United States. The problem is complicated by factors other than straight resistance to cold.

The possibility of enlarging the project to include the preparation of local maps to cover minor variations was suggested, but it was agreed to limit the present research to the single goal of a national map so that something might be completed within the foreseeable future. Observation was made, however, that some independent work is being done on a local scale in the states of California and New York.

Nomenclature Code Planned

Under the title "Does the Baby Have a Name?" Dr. Wendell H. Camp, of the Philadelphia Academy of Natural Sciences, spoke of the work of the commission on plant nomenclature and registration and of the international code of nomenclature for cultivated plants, which was adopted at the 13th International Horticultural Congress, at London, in September, 1952. The purpose of the code is to provide for registration of any new names, so that the same name cannot be applied to different plants and so that unnecessary names may not be created. Another aim is to promote "uniformity, accuracy and fixity in the use of names with the minimum disturbance of existing nomenclature."

The new code distinguishes between a botanical variety (a form of cultivated plant that has occurred in the wild) and a cultivar (a special form which has originated or is maintained only in cultivation). It was stated that the American Asso-

[Continued on page 36]



Wendell H. Camp
Speaks at Horticultural Congress

Plastic Wigwam Aids in Outdoor Propagation

By Victor J. McNitt

To propagators familiar with their advantages, plastic materials seem almost a magic means of dispelling the troubles that have beset the art of propagation for ages. Fantastically simple and effective, they have proved a solution to many of the propagator's most stubborn problems and have opened a way for successful propagation without glass.

An outstanding application of plastics to horticulture is the Plastic Plant Wigwam (patent pending), which enables vegetative propagation of many of the choicest difficult plants in the open ground, with little care. The plastic device takes the place of the complete greenhouse

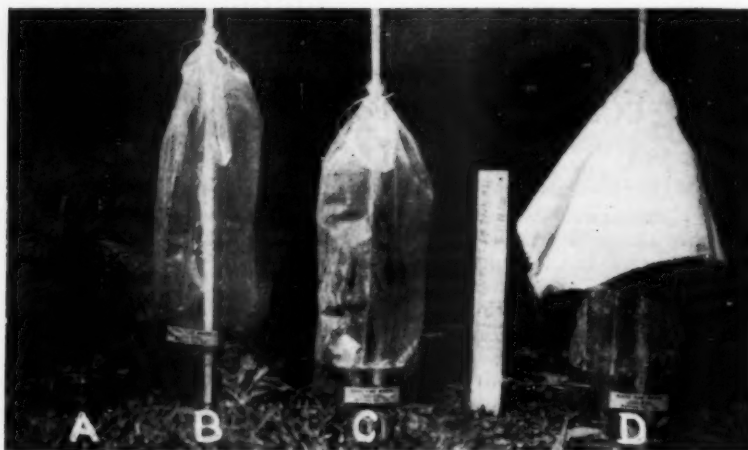
with all its elaborate equipment. Yet, with its extreme simplicity of design and operation, it produces material far superior to that of any glasshouse close case. The problem plants of horticulture, such as select varieties of blue spruce, fir (including Douglas fir), pine, bald cypress, larch, beech, birch, maple, rhododendron, etc., which heretofore were confined to greenhouse propagation, are easily handled in the open ground.

This method has disproved theories of long standing concerning the product which would be obtained by the vegetative propagation of many of our loveliest plant varieties. Most

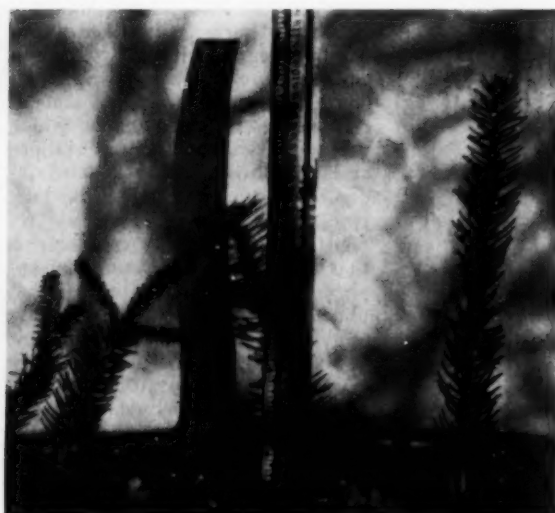
authorities state that a special variety of blue spruce, for example, propagated vegetatively from a scion taken from a low branch, will produce a prostrate, shapeless, straggling dwarf, which will never form a leader and become a symmetrical tree; propagation under plastic has proved that this definitely is not true. However, it is true that such a plant propagated in a glasshouse close case will form a stunted, prostrate dwarf, while the same plant propagated under plastic will quickly form a beautiful, symmetrical specimen.

In greenhouse propagation, the stock plants are potted in such con-

[Continued on page 28]



Three stages in grafting using the plastic plant wigwam. Figure A shows the newly grafted plant. Figure B shows the plastic wigwam being drawn over the plant, while in Figure C the plant is completely enclosed, with the ring at the bottom of the wigwam pressed against the soil. In Figure D, a muslin shade has been pinned on the top to prevent burning.



Picture at left illustrates a control test with *Picea abies viminalis* scions. Both plants shown were grafted on the same day, using identical stocks and identical scions. The plant at the left was glasshouse propagated, the one on the right was propagated where it stands using plastics. Note the marked difference in size. The picture at right shows the same two plants several months later. The plant propagated in the glasshouse (left) developed only four buds, while the plant propagated with plastic put forth vigorous growth from its 20 buds. The difference in the form of the two plants is striking.



The salesyard of Burger's garden shop is plainly marked with signs that can be seen easily from the highway. A large parking lot is between the salesyard and the garden shop.

Manufacturing Sideline Keeps Nursery Active on Rainy Days

By William T. Dikeman

Not too many years ago a rainy day was a day of inactivity for the landscape crew working at the Burger Nursery & Garden Center, at Elgin, Ill. Today a manufacturing side line developed by A. H. Burger has made bad weather days profitable days.

A good example, of which Mr. and Mrs. Burger are particularly proud, is a horseshoe scraper with two brushes for cleaning muddy feet before entering the house. "We developed this several years ago in our own shop," Mr. Burger says. "Now it is being copied all over the country."

In addition to the scraper, the machine shop which produces it turns out weather vanes, silhouette estate signs, wall brackets and plant racks, which the Burgers retail at their garden shop and sell wholesale to department stores and garden shops all over the nation. In the off season, or on days when it is too wet to work outdoors, the landscaping crew can go to work at the forge, the drill press and the cutting press in a shop located at the back of the sales lot.

The metal products, all of which were designed under the supervision of Mr. Burger, are made from 16-gauge steel. They are examples of the things that the Burgers have been able to make themselves.

Another example is the attractive sign along the highway which announces the garden center. Constructed with aluminum lath in such a way as to cut wind pressure to almost nothing, the sign is of professional quality and appearance.

The top is approximately 12 feet above the ground. The name of the shop is in letters almost one foot high, which were also designed by Mr. Burger. It is clearly visible to passing motorists, and it shows a pride in the shop which Mr. Burger believes is a quality every owner should possess.

Feels Advertising Is Important

Mr. Burger respects the power of advertising, and he puts signs to a number of uses. His nursery salesyard is lined with signs which direct customers to roses, trees or evergreens as they wish. The signs are large enough to be seen easily by passing motorists as well. Other signs have been placed along highways leading into Elgin giving the location of the garden shop.

Mr. Burger also carries his advertising into the local papers. He writes a brief column which offers suggestions to local growers and gardeners. The column was started in 1952. "Now people are looking for it, and many have come into the shop because of it," he says.

Circulars are sent out at intervals. The circulars are attractively printed, with lavish use of pictures and few words. The pictures by themselves are able to convey more clearly than would words the idea of the variety of products which the garden shop carries.

Sometimes, however, pictures do

[Continued on page 60]



An interior view of the garden shop. The horseshoe scraper on the floor left, the wall brackets and house numbers around the doorway and the estate silhouettes seen through the doorway are all manufactured by Mr. Burger.

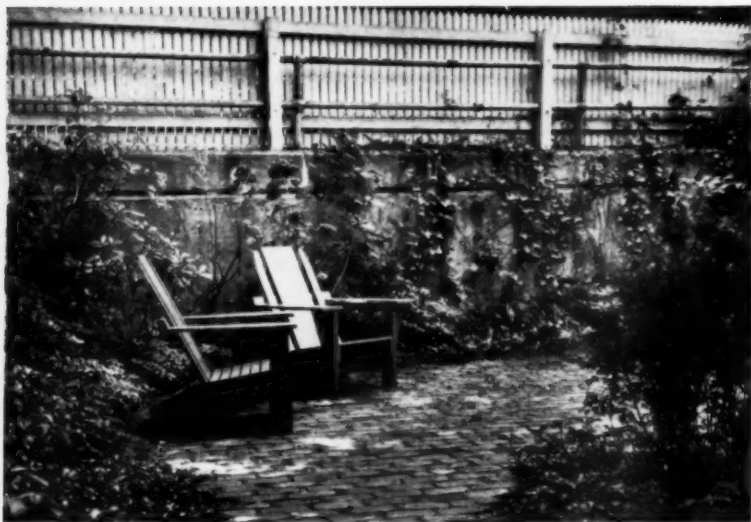


Illustration A (See Text).

Tips for Better Landscapes

By Clarence E. Lewis

Long Island Agricultural and Technical Institute, Farmingdale, N. Y.

INGENUITY IN LANDSCAPING

Anything is possible, even in landscape work. At least it seems that way after you have had the opportunity of seeing the unusual wishes of many clients realized as a result of the ingenuity of a good landscape man.

The terraced area shown in illustrations A and B is part of the living area of a family, an important part of their living area—the restful, relaxing and enjoyable part. What preluded the present picture is amazing.

This home is located on a small corner lot. Illustration A faces the street, which is well above the level of the home, as is evidenced by the concrete retaining wall. Above this wall there was originally only a pipe railing to protect persons from falling. Of course, this same railing protected the lives and property of those who live "down under."

Illustration B makes it apparent that privacy was totally lacking, because the fence was not present on this side street which joins the street shown in illustration A. The fence was added above the wall and along the sloping street to provide privacy not only for those who sat outdoors but also those who sat indoors.

As may be observed in illustration B, it was not necessary to provide shade since the street trees provided it. This is a case of a taxpay-

er's really benefiting from a village investment, an occurrence which is not usually in such evidence.

Continuous shade creates not only a plant-growing difficulty but also a moisture problem. In this case it was necessary to provide an outdoors sitting area which had good drainage and a hard surface, such as the brick shown in the illustrations, the area would be unpleasant, after rains, particularly if the area were of turf. In fact, a turf terrace might be undesirable any time.

As the house is close to both streets, the area for the terrace was extremely narrow and incorporating a planting as well as the terrace in the small space presented a problem, one which might at first seem impossible to solve. A successful planting in the confined area required plants that were narrow growers or could be trained as espaliers. Vines and ground covers were also a part of the answer to the problem, and perennials and quick-growing annuals were also used.

It would have been simple to construct a terrace without plants, but how uninteresting it would have been! Look at the illustrations and judge for yourself.

Bricks do a better job than flagstones in a small area because they are in keeping with the scale of the terrace and its surroundings. Also, bricks give more of a homey atmosphere. This is particularly true of old bricks.

It may be necessary to keep moss off the terrace areas where persons walk because of the slipperiness it creates. Moss collects under these conditions and is slimy in its early stages; however, it does improve the appearance of the rest of the terrace.

The espaliers against the fence shown in illustration B are forsythias, all species of which can be successfully used, though the weeping form lends itself best. The list of plants suited to this shady situation need not stop here, because there are many others that can be easily trained. Espaliers complete the privacy which the fence partly provides, and their greenery adds a feeling of restfulness to the area.

[Continued on page 41]

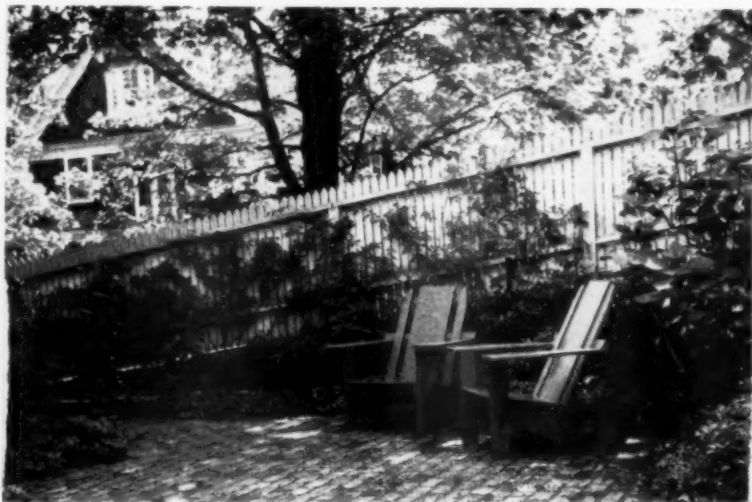
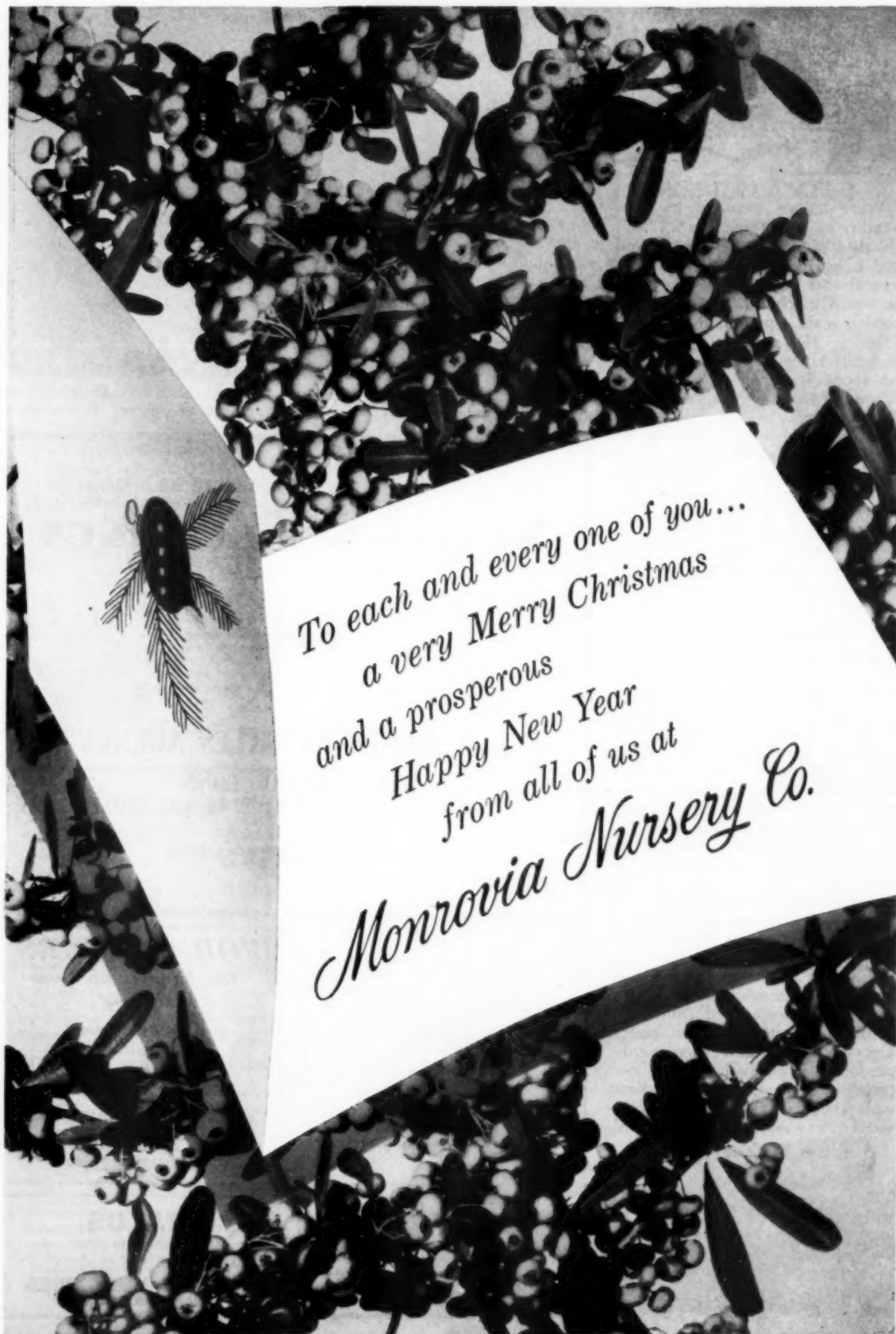


Illustration B (See Text).



To each and every one of you...
a very Merry Christmas
and a prosperous
Happy New Year
from all of us at
Monrovia Nursery Co.



PLANT NOTES HERE AND THERE

By C. W. Wood

What lessons did the dry, hot weather of 1953 teach you? If you observed plants that stood up well under the adverse conditions, make mental note of them, for they will be worth much to you during the coming years, especially in 1954 and 1955, if the long-range weather prophets know what they are talking about. They will be worth a lot to you anyway, because casual gardeners are always looking for plants that can be depended upon to do well even if neglected.

Among the kinds noted in my visits to nurseries and gardens, the following may be mentioned: *Callirhoe involucrata*, *dictamnus*, *echinops*, *Euphorbia corollata*, the *gypsophilas*, evening primroses, *platycodon*, sedums, *Statice latifolia* and *yuccas*.

Begonia Evansiana

A Wisconsin reader asks if *Begonia evansiana* would be hardy in the central part of his state. Of course it would be impossible to make a definite statement on the subject, although established plants sometimes went through the winter here in northern Michigan when planted on a shady, southern slope among ferns, where fern foliage protected them before snow came and when snow was piled over them from November until late March. But overwintering them outdoors was not reliable; so for assurance we always stored tubers in dry sand along with *amaryllis* and the like. *Evansiana* is an Asiatic species which comes from China and Japan. It is easily propagated from stem cuttings or axillary bulblets and is a good garden plant, where hardy, producing large, flesh-colored flowers throughout the summer. Even where not hardy, it can give pleasure if tubers are stored as suggested.

Best Budding Viola

I do not presume to tell a West Virginia reader which bedding viola will be the best for him to grow for local sales, because I do not know his clientele and other controlling factors; but I shall gladly tell him about the one I like best as a garden plant for a busy gardener—*Viola tri-*

color nigra, or Bowles Black, as we of the old school knew it. It has about everything that a bedding viola should have except large size of flower, if that is a compelling virtue. For instance, it has the long-blooming habit of the best of its kind, coming back after shearing and, here, at least, year after year, delighting one with its small, black flowers. Here it does well in sun or shade, but, judging from observa-

tions made in the Ohio valley, I should expect results in West Virginia in part shade, as on a north slope. There it should self-sow freely, the seedlings always being constant in color despite its neighbors.

Dianthus Delight

I suspect that the inquirer from Massachusetts will find most satisfaction in *Dianthus Delight* if he treats it as an annual. It was intro-

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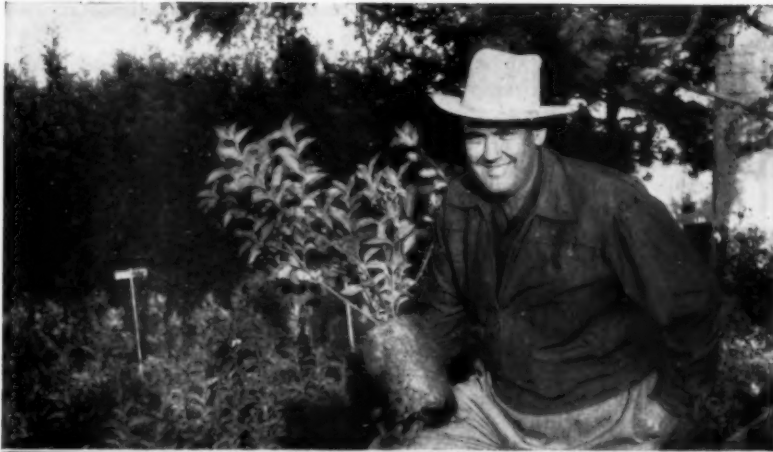
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| Size | Height | Top Diam. | Nearest Clay Pot | No. In Carton | Weight Per 1000 | Price | | |
|-------|------------|-----------|------------------|---------------|------------------|------------------|----------|-------------------|
| | | | | | | Per 100 | Per 1000 | Per 1000 |
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| No. 1 | 6 1/2 ins. | 6 ins. | 7 ins. | 100 | 340 lbs. | 4.50 | 42.50 | |
| No. 2 | 9 1/2 ins. | 7 ins. | 8 ins. | 100 | 535 lbs. | 5.00 | 47.50 | |
| No. 3 | 9 ins. | 8 ins. | 9 ins. | 100 | 610 lbs. | 5.50 | 52.50 | |
| | | | | | | Per 25 | Per 50 | Per 75 |
| No. 4 | 13 ins. | 12 ins. | | 25 | Per 100 130 lbs. | \$7.00 | \$13.25 | \$19.75 |
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C. HOOGENDOORN

Turner Rd. Newport, R. I.

duced as an annual, but some gardeners manipulated it into the perennial class by taking cuttings in late summer and wintering the rooted cuttings in a protected frame. If one had an especially worthy plant, that process might pay, but, generally speaking, it gives far better results when treated as an annual. Seeds started into growth in March will commence to bloom in July, continuing to produce large, mostly single, bright-colored flowers till heavy frosts. It is said to be a cross between *D. roysi* and *D. Sweet Wivelsfield*, which in turn are also hybrids. Somewhere along the line, perhaps from *Dianthus barbatus*, it has acquired some of the most vivid red shades that I have seen in pinks.

Flax

An Illinois reader writes: "Some time ago you mentioned *Linum narbonnense* as a good garden plant. I now grow *Linum perenne* and do not care to add another blue, but would drop my present variety if the one you mention is better. What do you say?"

My personal preference is for *L. narbonnense* for these reasons: Under the same conditions, its flowers stay open longer; they are a little larger, and their color is a deeper, brighter blue. They are just about as hardy as *L. perenne*, though both must be given light, well-drained soil in my section if they are to live over winter.

Corydalis Montana

At the risk of arousing the ire of readers who dislike the fumitories, known to botanists as *corydalis*, because of their brief life span, I am going to mention briefly *Corydalis montana*, a plains and foothills species occurring naturally in South Dakota and Montana, which I think should be brought to the attention of gardeners. Like many of its kind that are not annuals, it is a biennial, self-sowing enough to keep itself going after once gaining a foothold in a friendly garden, but never, to my knowledge, making a nuisance of itself. I like everything about the plant, as I shall point out in the next paragraph.

First of all, it will take care of itself in an unobtrusive way by self-sowing conservatively in friendly gardens, thereby overcoming its biennial nature without trouble to the gardener. Its rosette of silvered, fine-cut leaves, a pure joy in themselves, sends forth prostrate stems which turn up at the end and bear pretty, soft yellow, fumitory flowers all summer, if the weather is not

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| Blakemore, early | .45 | 1.35 | 2.50 | 9.00 |
| Catskill, midseason | .55 | 1.60 | 3.00 | 11.00 |
| Dorsett, early | .55 | 1.60 | 3.00 | 11.00 |
| Dunlap, early | .45 | 1.35 | 2.50 | 9.00 |
| Eden, midseason | .55 | 1.60 | 3.00 | 11.00 |
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| Fairfax, early | .55 | 1.60 | 3.00 | 11.00 |
| Fairland, early | .50 | 1.50 | 2.75 | 10.00 |
| Fairpeake, late | .60 | 1.70 | 3.25 | 12.00 |
| Gem, everbearing | .80 | 2.50 | 5.50 | 20.00 |
| Great Bay, midseason | .60 | 1.70 | 3.25 | 12.00 |

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|-----------------------------|-----------|------------|------------|-------------|
| Klondike, early | \$.50 | \$ 1.50 | \$ 2.75 | \$ 10.00 |
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| Missionary, early | .45 | 1.35 | 2.50 | 9.00 |
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| Catawba (mahogany), 1-yr., No. 1 | .25 | 1.75 | 12.00 | 100.00 |
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| Niagara (white), 2-yr., No. 1 | .30 | 2.00 | 15.00 | 125.00 |
| Niagara (white), 1-yr., No. 1 | .25 | 1.75 | 12.00 | 100.00 |
| Portland (white), 2-yr., No. 1 | .30 | 2.00 | 15.00 | 125.00 |
| Portland (white), 1-yr., No. 1 | .25 | 1.75 | 12.00 | 100.00 |
| Worden (black), 2-yr., No. 1 | .30 | 2.00 | 15.00 | 125.00 |
| Worden (black), 1-yr., No. 1 | .25 | 1.75 | 12.00 | 100.00 |

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| Quercus Coccinea, 2-yr. | 17.50 |
| Quercus Palustris, 1-yr. | 12.50 |
| Quercus Palustris, 2-yr. | 16.50 |
| Quercus Rubra, 1-yr. | 8.50 |
| Quercus Rubra, 2-yr. | 12.50 |
| Salix Babylonica, 2 to 3 ft. | 9.50 |
| 3 to 4 ft. | 12.50 |
| 4 to 5 ft. | 17.50 |
| 5 to 6 ft. | 22.50 |
| 6 to 7 ft. | 27.50 |

Many other good varieties—Write for List.

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| | Per 100 | Per 1000 |
|---------------|---------|----------|
| 4 to 6 ins. | \$ 5.00 | \$40.00 |
| 6 to 12 ins. | 6.00 | 50.00 |
| 12 to 18 ins. | 10.00 | 90.00 |
| 18 to 24 ins. | 15.00 | |

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BROAD-LEAVED EVERGREENS

EASTERN SHORE NURSERIES, INC.
EASTON, MD.

too dry. It does well in well-drained soil in sun or part shade.

The lily formerly known as *Lilium thayerae*, but which we are now told to call *L. davidi*, well deserves the attention of gardeners who are looking for an easy-to-grow lily that has merit as a garden ornament. Its nodding, black-spotted flowers with reflexed petals are similar to the more popular *L. willmottiae*, but *L. davidi* is a better garden plant because its sturdy stems do not require staking under ordinary conditions. The descriptive phrase, "a smaller and more refined *L. tigrinum*," will place it for most readers. To designate the plant further, it may be said that it grows up to five or six feet in height, if it has the rich, heavy loam it seems to like; it is generously clothed in foliage, especially the lower half of the stem, and each stem carries upward of 20 flowers. It is useful in the garden, not only for the foregoing reasons but also because of its flowering season, which comes just as *L. willmottiae* is finishing its task.

Lilium Superbum

Speaking of lilies in the foregoing paragraph reminds me to say a few words in praise of one of my favorites, the American Turk's-cap, *Lilium superbum*. I have not been able to figure out exactly why our several trials with it have not been so successful as one could wish, unless our soil is too dry and perhaps too alkaline. I notice that in nature it associates with plants which have a known liking for an acid soil or, at least, one of neutral reaction, and always, so far as I have observed, it is found in soil containing an abundance of humus. I suspect, too, that we have erred by putting it in too much shade. It likes the lower part of its stem shaded by herbage, but selects full sun for its natural home. And, of course, it likes plenty of moisture with good drainage.

A well-grown plant may be seven or eight feet tall, with nodding Turk's-cap lilies of varying degrees of orange, always, as I have observed them, shading to crimson toward the end of the petals and spotted with maroon at the center. It is a floriferous plant of excellent blooming habits and a flowering period in summer that commends it everywhere.

Dianthus Old Spice

In answer to a Tennessee reader's question on *Dianthus Old Spice*, I quote a note made 10 years ago af-



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| | Per 1000 |
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| 1 to 2 mm., 8 to 12 ins. in height | \$10.00 |
| 2 to 3 mm., 12 to 15 ins. in height | 15.00 |
| 3 to 4 mm., 15 to 18 ins. in height | 18.00 |
| 4 to 6 mm., 18 to 24 ins. in height | 35.00 |
| 6 to 12 mm., 24 to 30 ins. in height | 55.00 |
| Conservation grade, 3 to 12 mm., 12 to 30 ins. in height | 22.50 |

Will be shipped cut back to about 8 ins. unless stated otherwise. Sample for \$2.00. Special prices on large quantities. Heights are approximate.

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Write for Price List and Planting Guide.
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ter growing it two years and observing it previously in a friend's garden. I do not remember now why it was in our trials for only two years, but that is no doubt immaterial anyway.

The note: "This year was a bad one as regards leaf spot in northern Michigan; so I was not surprised to find Old Spice suffering mildly from that malady. Although it did not bloom continuously here, it was seldom without flowers, and the production was as prodigious in the early part of the season as one expects from the average floriferous plumarius form. The flowers, both in their salmon-pink coloring and their intense spicy fragrance, are all that one could desire. If it behaves elsewhere as it did here (I did not notice a split calyx during its stay here), its neat, fully double flowers will make friends with all who have had unsatisfactory experiences with ordinary double plumarius forms."

Spike Grass

It is sometimes disconcerting to see how handsome plants, familiar to many gardeners, escape the attention of so curious a plant lover as this writer. How the spike grass, *Uniola latifolia*, has escaped my attention is not easy for me to understand, and I salve my conscience by assuring myself that it may have been a part of my early life and faded from memory in old age. Anyway, it was new to me when I saw it growing along a southern Ohio roadside last summer. After identifying it upon my return home, I found that the literature is full of references to the plant.

One of the most conservative reports was found in the *Cyclopedia of Horticulture*, where Hitchcock says: "Often grown in hardy borders, one of the best of our hardy native perennial grasses." An eastern friend, who has had it in his garden for years (an inconsiderate friend, I say, because he never said a word to me about it until I prodded him with questions), informs me that it grows up to five feet tall in good soil and, when allowed to remain undisturbed for years as a lawn specimen, increases in size and beauty, developing into a really noble specimen. It grows naturally from Pennsylvania to Kansas, so that it should be hardy in most sections. The ornamental value of the plant is found in the handsome, large (to 10 inches in length), loose panicles, which, I find, incidentally, make excellent dried material for winter bouquets.

I have seen and admired the sea

oat, *Uniola paniculata*, in the south, where it grows on sand hills along the coast. A North Carolina correspondent writes that it makes a splendid lawn specimen, growing up to seven feet tall and producing handsome, drooping panicles. I have not been able to find out details of its hardiness. The *Cyclopaedia* speaks of *U. palmeri*, another species growing "in sand flats along rivers in New Mexico" and mentions that the Indians use it as a grain food.

Plantago Nivalis

When one mentions plantains to a group of gardeners, he is apt to receive stony stares at best, because few, except the most curious, know any of the kinds other than the pests. Even if one has the silver-leaved kinds, it may take some efforts to sell them as "plantains," but call them "plantago" and the beauty of their foliage will turn the trick. Nor would that be deceiving anyone, because the kind to be mentioned later never self-sowed in our trials and, if it did, the seedlings would never come amiss.

The loveliest plantain that I have ever seen is *Plantago nivalis*, from the mountains of Spain. It is one of the loveliest of silver-leaved plants that I know, the small rosettes having more silver and more silkiness than any other plantain of my acquaintance. In our trials years ago, we found that it took care and special conditions to make it permanent, including a perfectly drained soil and, in the north at least, a protected situation. A rather infertile, gravelly mixture, with just enough humus, preferably leaf mold, in it to keep the plant going, best brings out the silvery, silky loveliness of the foliage. Even then it disappears this far north during the winter, suggesting tenderness to cold.

Digitalis Thapsi

One might think that writers are trying to hide their ignorance of foxgloves when they speak of them as biennial or perennial, but experience with the different kinds teaches one that they may be either, depending on the species and treatment. Thus, the common foxglove is usually spoken of as a biennial, which it usually is, but an occasional plant acts as a short-lived perennial. These facts are mentioned to show that when *Digitalis thapsi* is spoken of as a perennial it may not live up to that reputation. Actually, we usually expected at least half of our plants to die after their first flowering, especially after a performance which was as profligate as

GRAFTED STOCK FOR SPRING, 1954 DELIVERY

Grafts are normally ready for shipment after April 15th. Since there is a possibility of damage by late spring frost, kindly give a shipping date when you feel it is safe to plant without frost injury.

| | Per 10 | Per 100 |
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| <i>Acer palmatum atropurpureum</i> | \$7.50 | \$65.00 |
| <i>Acer palmatum dissectum atropurpureum</i> | 7.50 | 65.00 |
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| <i>Cornus florida alba plena</i> | 6.00 | 50.00 |
| <i>Cornus florida rubra</i> | 6.00 | 50.00 |
| <i>Cornus florida rubra Prosser</i> | 7.50 | 65.00 |
| <i>Cryptomeria lobbi compacta</i> | 7.00 | 60.00 |
| <i>Ilex opaca femina</i> | 7.00 | 60.00 |
| <i>Juniperus chinensis columnaris glauca</i> | 6.00 | 50.00 |
| <i>Juniperus chinensis columnaris viridis</i> | 6.00 | 50.00 |
| <i>Juniperus chinensis keteleeri</i> | 6.00 | 50.00 |
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| <i>Juniperus chinensis sargentii</i> | 6.00 | 50.00 |
| <i>Juniperus chinensis sargentii glauca</i> | 6.00 | 50.00 |
| <i>Juniperus sabina Von Ehron</i> | 6.00 | 50.00 |
| <i>Juniperus squamata meyeri</i> | 6.00 | 50.00 |
| <i>Juniperus virginiana burki</i> | 6.00 | 50.00 |
| <i>Juniperus virginiana canaerti</i> | 6.00 | 50.00 |
| <i>Juniperus virginiana elegantissima</i> | 6.00 | 50.00 |
| <i>Juniperus virginiana glauca</i> | 6.00 | 50.00 |
| <i>Juniperus virginiana kosteriana</i> | 6.00 | 50.00 |
| <i>Juniperus virginiana pyramidiformis hilli</i> | 6.00 | 50.00 |
| <i>Juniperus virginiana schottii</i> | 6.00 | 50.00 |
| <i>Magnolia lennei</i> | 7.50 | 65.00 |
| <i>Magnolia rustica rubra</i> | 7.50 | 65.00 |
| <i>Magnolia soulangeana</i> | 7.00 | 60.00 |
| <i>Magnolia soulangeana nigra</i> | 7.00 | 60.00 |
| <i>Magnolia stellata</i> | 7.00 | 60.00 |
| <i>Magnolia stellata rosea</i> | 7.00 | 60.00 |
| <i>Magnolia stellata rubra</i> | 7.50 | 65.00 |
| * <i>Pinus cembra</i> | 6.50 | 55.00 |
| <i>Thuja occidentalis douglasii spiralis</i> | 5.00 | 40.00 |
| <i>Thuja occidentalis elegantissima</i> | 5.00 | 40.00 |
| <i>Thuja occidentalis lutea Mary Corey</i> | 5.00 | 40.00 |
| <i>Thuja occidentalis lutea Geo. Peabody</i> | 5.00 | 40.00 |
| <i>Thuja occidentalis nigra</i> | 5.00 | 40.00 |
| <i>Thuja occidentalis pyramidalis</i> | 5.00 | 40.00 |
| <i>Thuja occidentalis rosenthalii</i> | 5.00 | 40.00 |
| <i>Thuja occidentalis wareana sibirica</i> | 5.00 | 40.00 |
| <i>Thuja orientalis aurea nana</i> | 5.00 | 40.00 |
| <i>Thuja orientalis conspicua</i> | 5.00 | 40.00 |
| <i>Thuja orientalis elegantissima</i> | 5.00 | 40.00 |
| <i>Tsuga canadensis pendula</i> | 6.00 | 50.00 |

*Five needle Pines cannot be shipped in the following states: Arizona, California, Colorado, Georgia, Kentucky, New Mexico, Nevada, South Carolina and Tennessee.

Prices are F.O.B. Mountain View, N. J.; packing additional, at cost. Usual terms to those of established credit. No goods sent C.O.D. unless 25% of amount is sent with order. All this material is listed subject to prior sale and crop conditions.

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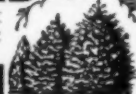
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Per 100
Strong 1-yr., T., 4 to 7 ins. \$25.00
Strong 2-yr., T., 6 to 12 ins. 35.00
Strong 4-yr., T., 12 to 18
ins., from field rows. . . . 75.00

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AMERICAN NURSERYMAN

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a foxglove's can be. Even so, thapsi can be considered perennial and one of the most pleasing of the digitalis species. Its first recommendation is a rosette of pretty, downy leaves, a lovely ornament for a well-drained spot in sun. From that rosette spring stems to a height of two feet or less, carrying the typical foxglove inflorescence, large flowers either opening a lovely shade of buff and changing to a pleasing shade of strawberry pink with age or the latter color from the start.

Wilson Monkshood

One has to admit that it takes time, patience and care to have *Aconitum wilsoni* at its best—more time than I have these days; so I go each fall to see it in the garden of friends. Their method of handling the plant may, I think, be helpful to those who are struggling with this monkshood, one of autumn's finest offerings. At the outset, they give it a clay soil containing considerable humus. Then they commence each spring to make the several applications of Bordeaux or other good fungicides necessary to keep mites under control. As it is needed, they apply a nicotine sulphate and soap combination, after which the plant receives a dusting of exceedingly fine tobacco dust. That care entails a lot of fussing, to be sure, but they think the results justify the efforts and I fully concur as long as someone else is putting forth the efforts.

NEW POT SHIPPING RULES

The Society of American Florists and Railway Express Agency have announced a modification in the regulations governing the express shipment of plants in pots. The new ruling, which appears in supplement 14 to official express classification No. 35 (effective November 28, 1953) provides that "when in fiberboard boxes, pots must be securely packed so that contents cannot shift in transit, and when weight is more than 35 pounds, but not more than 90 pounds, container must be made of double wall corrugated fiberboard, testing not less than 275 pounds. When gross weight exceeds 90 pounds, packing must be in wooden boxes or crates." The new ruling represents concessions which have been made on a requirement for similar types of packing that each pot would have to be secured to the bottom of the carton and that the carton would have to have a complete double lining.

COVER ILLUSTRATION

Ilex Crenata Microphylla

Ilex crenata microphylla, the littleleaf Japanese holly, is an attractive broad-leaved evergreen that has been used extensively in landscape plantings. Quite upright in its smaller sizes, it becomes more stiffly spreading, as shown in the cover illustration, with age.

While the plant may become much larger, it varies in the north central region between four and seven feet, with several stems from the base of the plant. The leaves of the littleleaf Japanese holly are small, about one-half to three-fourths inch long and half as broad; dark glossy green, and borne stiffly on the twigs. The leaves are alternate on the stem and have a few teeth near the apex.

Ilex crenata, the Japanese holly, is a native of Japan and was introduced in 1864. The generic name, *ilex*, is the ancient Latin name of *Quercus ilex*. The species name, *crenata*, refers to the crenate margin of the leaf, and the variety name, *microphylla*, refers to the small leaf of the variety.

The flowers of this variety of holly are insignificant, as far as their landscape effect is concerned. They are yellowish and are produced in May or early June. The fruits are black berries, attractive in late fall and early winter.

The littleleaf Japanese holly should be planted in good soil that is retentive of moisture but well drained. It does well in a wide range of soil reaction. Because it is on the border line for hardiness in the north, it is best used in sheltered situations in partial shade. It is free from pests, needs little pruning, transplants readily and can be propagated easily by semimature or hardwood cuttings.

The littleleaf Japanese holly can be used effectively in landscape plantings as individual specimens, as border plants, as foundation plants in combination with both broad and narrow-leaved evergreens and, where it is sufficiently hardy, as a formal or semi-informal hedge.

L. C. C.

ERNEST COFFMAN, who formerly operated Coffman Landscaping & Tree Service, Dallas, Tex., has opened Coffman Nursery, at 3535 North Buckner boulevard, also at Dallas. Mrs. Coffman will also be associated with the enterprise. Mr. Coffman will continue his landscaping activities.

NORTHERN-GROWN STOCK

| LANDSCAPE-SIZE SHRUBS | | | PAPER BIRCH | | |
|-----------------------------|----------|----------|-----------------------------|---------|----------|
| | Per 10 | Per 100 | | Per 100 | Per 1000 |
| <i>Clethra alnifolia</i> | | | 2 to 3 ft. | \$ 8.00 | \$ 70.00 |
| 18 to 24 ins. | \$4.00 | \$35.00 | 3 to 4 ft. | 25.00 | 200.00 |
| 2 to 3 ft. | 6.00 | 50.00 | 4 to 6 ft. | 40.00 | 300.00 |
| 3 to 4 ft. | 8.00 | 70.00 | 6 to 8 ft. | 100.00 | |
| <i>Ilex verticillata</i> | | | | | |
| 2 to 3 ft. | 6.00 | 50.00 | LINING-OUT STOCK | | |
| 3 to 4 ft. | 7.00 | 60.00 | <i>Acer saccharum</i> | | |
| <i>Viburnum cassinoides</i> | | | 2 to 3 ft. | 12.00 | 100.00 |
| 2 to 3 ft. | 5.00 | 40.00 | 3 to 4 ft. | 30.00 | 250.00 |
| 3 to 4 ft. | 6.00 | 50.00 | 4 to 6 ft. | 60.00 | 500.00 |
| <i>Viburnum dentatum</i> | | | <i>Clethra alnifolia</i> | | |
| 2 to 3 ft. | 4.50 | 35.00 | 6 to 12 ins. | 7.00 | 60.00 |
| 3 to 4 ft. | 6.00 | 50.00 | <i>Ilex verticillata</i> | | |
| SUGAR MAPLES | | | 1 to 2 ft. | 7.00 | 60.00 |
| Unit price in quantities | | | <i>Syringa vulgaris</i> | | |
| | 10 to | 50 to | 1 to 2 ft. | 7.00 | 60.00 |
| <i>Acer saccharum</i> | 40 | 250 | <i>Viburnum acerifolium</i> | | |
| 1 1/4 to 1 1/2 in. cal. | \$ 4.00 | \$ 3.50 | 2 to 15 ins. | 8.00 | 70.00 |
| 1 1/2 to 1 3/4 in. cal. | 6.00 | 5.00 | <i>Viburnum cassinoides</i> | | |
| 1 3/4 to 2 in. cal. | 7.00 | 6.00 | 1 to 3 ft. | 8.00 | 70.00 |
| 2 to 2 1/2 in. cal. | 9.00 | 8.00 | <i>Viburnum dentatum</i> | | |
| 2 1/2 to 3 in. cal. | 12.00 | 10.00 | 1 to 2 ft. | 8.00 | 70.00 |
| CLUMP BIRCH | | | HEMLOCK TRANSPLANTS | | |
| Paper Birch | Per 10 | Per 100 | <i>Tsuga canadensis</i> | | |
| 5 to 6 ft., | | | 4 to 8 ins., trans., 2-2. | 15.00 | 120.00 |
| 3 stems and up.... | \$ 30.00 | | 8 to 12 ins., trans., 2-2. | 20.00 | 180.00 |
| 6 to 8 ft., | | | HEMLOCK SEEDLINGS | | |
| 3 stems and up.... | 40.00 | | <i>Tsuga canadensis</i> | | |
| Gray Birch | | | 4 to 8 ins. | 4.00 | 20.00 |
| 4 to 6 ft. | | | 8 to 12 ins. | 6.00 | 50.00 |
| 2 to 8 stems..... | 20.00 | \$150.00 | 12 to 18 ins. | 8.00 | 70.00 |
| 6 to 8 ft., | | | | | |
| 2 to 6 stems..... | 35.00 | 250.00 | | | |

All stock is first-quality collected material except as otherwise noted. See the September 15 issue, pages 16, 17 and 18 for complete wholesale list for Fall, 1953, and Spring, 1954, of Hardy Native Ferns, Lilies, Orchids, Wild Flowers, Trees, Shrubs and Evergreens.

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| | Per 100 | Per 1000 |
|---|---------|----------|
| Cotoneaster Dielsiana, 1-yr., S., 8 to 15 ins. | \$10.00 | \$ 90.00 |
| Cotoneaster Horizontalis, 1-yr., S., 4 to 6 ins., br. | 15.00 | |
| Cotoneaster Horizontalis, 2-yr., T., 8 to 12 ins. | 50.00 | |
| Cotoneaster Praecox, 1-yr., S., 4 to 8 ins., br. | 25.00 | 225.00 |
| Cotoneaster Praecox, 2-yr., T., 8 to 12 ins. | 50.00 | |

Cotoneaster Multiflora

Strong, 2-yr. grafts, true to name. 2 to 3 ft.

\$75.00 per 100

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Telephone 2689 GENEVA, N. Y.

DEL-MAR-VA NURSERIES

Growers of Quality
Taxus, Ilex and other Ornamentals.

Ask for list.

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Choice Varieties of Lining-out Stock.
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PALLACK BROS. NURSERIES, INC.

Route 19, 31 mi. north of Pittsburgh, Pa.

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R.F.D. 1 HARMONY, PA.

Specialists in PERENNIALS

SEEDS—PLANTS—BULBS

Perhaps America's largest list of unusual plant materials.

Wholesale catalog on request

PEARCE SEED COMPANY

Dept. N MOORESTOWN, N. J.

NOW ARRIVED FROM EUROPE
**HEAVY
FOLIAGED
FULL ROOTED
NEW HYBRID
CLIVIA**

**Fully developed 4 year old plants --
Prepared to bloom Jan. - Feb.**

PROMPT SHIPMENTS ASSURED

New selected strain produces clusters of large orange to red flowers. Need little light or water. **Fool-Proof**

SUPPLY LIMITED—The sooner you order, the sooner you can pot.

3 for \$6.50 12 for \$24.00

100 for \$190.00

EARLY BLOOMING**AMARYLLIS**

Jumbo size bulbs treated in Holland for fast blooming. Produce flowers of immense size and richest, purest color, usually four to stem—often followed by second bloom.



Photo of prepared Amaryllis Bulb, cut through, shows flower bud already formed. This newly developed treatment applied during summer, makes possible blooms in 6 to 8 weeks.

RED or ORANGE

**3 for \$5.50 3 for \$6.00
12 for \$21.00 12 for \$22.50
100 for \$165. 100 for \$180.**

F.O.B. Roslyn Heights, N. Y.

STASSEN FLORAL GARDENS, Inc.
DEPT. 31 ROSLYN HEIGHTS, N. Y.

WE OFFER

| | Per 100 | Per 1000 |
|---|------------|-------------|
| Ampelopsis veitchii (Boston Ivy) | | |
| 1-yr., s. | \$ 6.00 | \$ 40.00 |
| Berberis thunbergii (green) | | |
| 2-yr., s., 4 to 9 ins. . . | 5.00 | 35.00 |
| 2-yr., s., 9 to 12 ins. . . | 6.50 | 50.00 |
| 2-yr., s., 12 to 15 ins. . . | 9.00 | 75.00 |
| Berberis thunbergii atropurpurea (Redleaf) | | |
| 2-yr., s., 4 to 9 ins. . . | 6.00 | 40.00 |
| 2-yr., s., 9 to 12 ins. . . | 9.00 | 75.00 |
| 2-yr., s., 12 to 15 ins. . . | 15.00 | 125.00 |
| Cornus florida | | |
| 1-yr., s., below grafting size | 5.00 | 40.00 |
| Hydrangea A. G. Hills of Snow | | |
| 1-yr., liners | 7.50 | 50.00 |
| 2-yr., 15 to 21 ins. . . . | 15.00 | 125.00 |

BROUWER'S NURSERIES

P. O. BOX 25, NEW LONDON, CONN.

**DALLAS GROUP PROPOSES
LICENSING NURSERYMEN**

The Nursery and Landscape Association of Dallas, Tex., is continuing its efforts to protect the public from irresponsible, usually itinerant sellers of nursery products. At a meeting of the association, held November 12 at the L. C. House Nursery on Mockingbird lane, B. B. Blalock, president of the organization, introduced for discussion proposals for a city ordinance that would discourage irresponsible vendors. E. E. Leverett, newly elected chairman of the board of directors, presided during the discussion, which revolved around the advantages and disadvantages of a city ordinance. The proposed ordinance would provide that nurserymen and landscapers take an examination, after which they could purchase a permit, costing \$10, for each of the categories under which they operate. The four proposed categories were selling, landscaping, spraying and landscape architecture. Although the examination would be a simple one and the permit easy to obtain, the association members felt that illegitimate businessmen would be deterred by the necessity of taking the examination and obtaining a license.

After a lengthy discussion, with many suggestions made concerning the ordinance, the association voted to proceed with its plan for adoption of the measure. The next step will be to present the proposal to the city council for its consideration. Provision will be made to exempt yardmen and other caretakers from having to obtain a permit.

In presenting its proposal to the city council, the association will stress that its main purpose is to protect the public from merchandise of inferior quality, which reflects on the nursery and landscaping profession as a whole and creates public distrust of the industry. If the ordinance passes, it will be another important step taken by the nursery and landscape industry to raise the standards of the industry and to help the public in identifying reputable, legitimate businessmen. F. B.

DALLAS CHRISTMAS PARTY

The Nursery and Landscape Association of Dallas held its annual Christmas party December 9 at the Washington Place Hall. Buck Farris, of Buck Farris Tree and Landscape Service, provided the entertainment for the affair. Mrs. Ruth Sturdivant, Sturdivant Landscape

**CHOICE
NURSERY STOCK**

| | Per 100 | Per 1000 |
|--|------------|-------------|
| SCOTCH PINE (Special strain) | | |
| 2-yr., S., (2-0), 5 to 10 ins. . . | \$ 4.00 | \$30.00 |
| AUSTRIAN PINE (Heavy grade) | | |
| 2-yr., S., (2-0), 3 to 5 ins. . . | 3.00 | 20.00 |
| 3-yr., S., (3-0), 5 to 9 ins. . . | 5.50 | 40.00 |
| MUGHO PINE | | |
| 2-yr., S., (2-0), 3 to 6 ins. . . | 3.00 | 20.00 |
| 3-yr., S., (3-0), 5 to 9 ins. . . | 4.00 | 30.00 |
| COLORADO BLUE SPRUCE | | |
| 3-yr., S., (3-0), 5 to 8 ins. . . | 7.00 | 50.00 |
| 3-yr., S., (3-0), 6 to 10 ins. . . | 10.00 | ... |
| 3-yr., T., (2-1), 3 to 5 ins. . . | 7.50 | 60.00 |
| WHITE SPRUCE | | |
| 2-yr., S., (2-0), 5 to 10 ins. . . | 5.00 | 35.00 |
| 4-yr., T., (3-1), 6 to 12 ins. . . | 6.50 | 50.00 |
| NORWAY SPRUCE | | |
| 3-yr., S., (3-0), 5 to 10 ins. . . | 4.50 | 30.00 |
| DOUGLAS FIR | | |
| 2-yr., S., (2-0), 3 to 7 ins. . . | 4.50 | 35.00 |
| BALSAM FIR | | |
| 4-yr., T., (3-1), 4 to 6 ins. . . | 7.00 | 60.00 |
| CANADIAN HEMLOCK | | |
| 4-yr., T., (3-1), 6 to 12 ins. . . | 7.00 | 60.00 |
| AMERICAN ARBORVITAE | | |
| 4-yr., T., (4-1), 6 to 12 ins. . . | 10.00 | 80.00 |
| JUNIPERUS SCOPULORUM | | |
| 3-yr., S., (3-0), 5 to 10 ins. . . | 6.00 | 40.00 |
| 3-yr., T., (2-1), 4 to 7 ins. . . | 8.00 | 60.00 |
| JUNIPERUS PLATTE RIVER (Red Cedar) | | |
| 3-yr., S., (3-0), 8 to 15 ins. . . | 6.00 | 40.00 |

Write for complete list.

**SUNCREST
EVERGREEN NURSERIES**

P. O. Box 594
JOHNSTOWN, PA.

IT PAYS**TO Test Your Soil**
**Grow Top Quality
at Lower Cost**

Today, no grower can make as much money as he should, without Soil Testing. Don't be content with average grades and get only average prices when it's so easy to produce choice and fancy stock!

Top market prices and heavier production per bench are guaranteed every owner of a **SUDBURY SOIL TEST KIT**. Prevents starving plants, or stunting them with toxic soil. Can be used on soil already in benches, even on growing crops. Turn poor benches into top production, and keep them there.

So Simple Anyone Can Use It!

Easy as reading a thermometer—takes only 10 minutes, costs 10¢ a test. No waiting—tells instantly what to do. **Order Today!**

Let It Pay for Itself

SEND NO MONEY—pay postman only \$4.95 plus postage, then 4 monthly payments of \$6.75 each. Or send \$29.95 and we'll prepay, saving you \$1.25 to \$2.95 in postal charges.

BETTER CROPS GUARANTEED—your money refunded anytime within a year unless fully satisfied.

Sudbury Laboratory, Box 131, South Sudbury, Mass.

Dealers: Write for Special Offer!

Co., was chairman of the party, which featured a turkey dinner with all the trimmings. Helping Mrs. Sturdivant were committee members Mrs. A. A. Field, of Flowers from the Field and Field Tree Surgery; Mrs. Ed Marter, Twin Oaks Nursery; Mrs. E. E. Leverett, Leverett Nursery; Mrs. E. H. Cannon, Cannon Nursery and Floral Co.; Ralph Pinkus, North Haven Gardens, and Bob Sturdivant, Sturdivant Landscape Co. Mrs. Field was in charge of decorations for the affair. Tables were adorned with gold candles, around which were white reindeer and clusters of holly with red berries. The centerpiece featured gold magnolia leaves sprayed with sparkle, gold and red pine cones and red and white carnations. Numerous individual candleholders decorated with holly were placed at frequent intervals down the length of the tables, with Christmas bells and other adornments interspersed. F. B.

CONNECTICUT AWARD GIVEN

William M. Austin, of Trinity Pass road, Stamford, Conn., a student in the Ratcliffe Hicks school of agriculture of the University of Connecticut, has been given this year's Connecticut Nurserymen's Award of \$200. The award was formally presented by A. I. Mann, director of the school at a recent college of agriculture assembly.

In addition to his scholastic pursuits, Mr. Austin has participated in a wide variety of school activities. He is currently the treasurer of the Horticulture Club and was chairman of the nursery management exhibit for the 1953 Hort Show. The past year, he was a member of the freshman swimming and track teams. Among his other activities are the church choir, student council, dorm council and the Hicks Hall Association.

Mr. Austin has been conducting his own maintenance business during week ends in the spring and throughout the summer. At one time, he worked for the Toms Tree Expert Service, at Norwalk, Conn. He assists his father in growing gladioli each summer.

DR. JOHN L. LOCKWOOD, who received his doctorate from the University of Wisconsin in October, 1953, has joined the staff of the Ohio agricultural experiment station, at Wooster, O. At the station he will continue his research on antibiotics in relation to plant diseases.

FLOWERING CRAB APPLE

ATROSANGUINEA. Purple-bronze foliage; rosy-lavender flowers; purplish fruit. 18 feet.

| | Per 10 | Per 100 |
|------------------|---------|----------|
| 4 to 5 feet..... | \$12.00 | \$110.00 |
| 3 to 4 feet..... | 8.50 | 80.00 |
| 2 to 3 feet..... | 5.50 | 50.00 |

DOLGO. White flowers; large, showy red fruit; good for jelly. 40 feet.

| | | |
|------------------|------|-------|
| 3 to 4 feet..... | 6.50 | 60.00 |
| 2 to 3 feet..... | 4.50 | 40.00 |

ELEYI (Eley Crab Apple). Foliage red in spring; flowers vinous-red, single; fruit red. 40 feet.

| | | |
|------------------|-------|--------|
| 4 to 5 feet..... | 12.00 | 110.00 |
| 3 to 4 feet..... | 8.50 | 80.00 |
| 2 to 3 feet..... | 6.50 | 60.00 |

FLORIBUNDA, RED FRUITING (Japanese Flowering Crab Apple). Buds coral-red; flowers pale pink turning to snow-white. The fruits on this variety are a showy red instead of the usual yellow.

| | | |
|------------------|------|-------|
| 3 to 4 feet..... | 8.50 | 80.00 |
| 2 to 3 feet..... | 6.50 | 60.00 |

HOPA. In the spring it is completely covered with the most magnificent, fragrant pink flowers. The flowers are followed by the prettiest, tiny red apples that bejewel the tree during the summer. You can make a good jelly from them.

| | | |
|------------------|------|-------|
| 4 to 5 feet..... | 9.00 | 85.00 |
| 3 to 4 feet..... | 7.00 | 65.00 |
| 2 to 3 feet..... | 4.50 | 40.00 |

NIEDZWETZKYANA (Red-Vein Crab Apple). Single, red flowers; red fruit; bark and wood reddish. 40 feet.

| | | |
|------------------|-------|--------|
| 4 to 5 feet..... | 12.00 | 110.00 |
| 3 to 4 feet..... | 8.50 | 80.00 |
| 2 to 3 feet..... | 6.50 | 60.00 |

RED SILVER. Silver and red foliage; crimson flowers; red fruit. 30 feet.

| | | |
|------------------|------|-------|
| 3 to 4 feet..... | 8.50 | 80.00 |
| 2 to 3 feet..... | 5.50 | 50.00 |

SCHEIDECKERI. Flowers pale pink; semidouble, yellow fruit. 25 feet.

| | | |
|------------------|------|-------|
| 3 to 4 feet..... | 8.50 | 80.00 |
| 2 to 3 feet..... | 6.50 | 60.00 |

THEIFERA. Handsome, small, free-flowering tree with light pink, fragrant blossoms. Resembles cherry tree when in bloom. Fruit greenish-yellow with red cheek. Hardy.

| | | |
|------------------|-------|--------|
| 4 to 5 feet..... | 12.00 | 110.00 |
| 3 to 4 feet..... | 8.50 | 80.00 |

THE WILLIS NURSERY Co.

"Your Wholesale Nurserymen"

OTTAWA, KAN.

LILACS ON OWN ROOTS

Leading varieties. All sizes, 3 to 8 ft. 4000, all transplanted.

RED LAKE CURRANTS

Assortment of Large-size Plants for Landscape Planting

Having sold land, will clear this fall. Inspection and Correspondence Invited.

SAMUEL FRASER NURSERY

at Geneseo, N. Y.
Contact and Mail: 1302 18th St., N.W.
Washington 6, D. C.

COMPLETE ASSORTMENT OF

Evergreens, Fruit Trees, Shade Trees, Roses and Lining-out Stock.

Write for complete list.

ONARGA NURSERY CO.
ONARGA, ILL.



This Business Of Ours

Reflections on the Progress and Problems of Nurserymen

By E. Sam Hemming

HALF-HARDY PLANTS

After a succession of mild winters, nurserymen tend to grow and sell more and more plants that are not altogether hardy in their territories. The following remarks are not meant as a criticism of the custom but rather as a discussion of the problems that sometimes arise.

The writer's own territory, situated as it is at Easton, Md., between the Chesapeake Bay and the Atlantic, is a particularly tempting one for growing half-hardy plants, and we, too, have been guilty of taking a chance with them. In fact, we grew entirely too many plants of that type, and our inventory was punished severely in the winter of 1933-34. Certain items were completely killed out, and we have not grown them since, somewhat to our regret, for our neighboring nurserymen have been growing and selling them successfully ever since. Unfortunately, one can never tell when a repetition might occur.

A lady in her 80's, who is a member of one of Maryland's old families, remarked that, to her knowledge, crape myrtle has been killed back to the ground three times in 50 years.

Another facet of the problem is that injury during a cold winter may not follow a north-to-south pattern, but rather certain plants may be killed back in some areas and not in other areas. Some of those killed may be south of those not killed. In addition, the injury may come from unseasonable cold, such as an early cold spell, rather than from cold weather more severe than that of an average winter.

We must be conscious of the tenderness of the plants we grow; yet, if we grow only those that are strictly hardy, our plantings will be much less attractive and interesting than they are.

Superficially, one might think there was a serious ethical question involved in selling plants which are not altogether hardy. This is something of which we are all conscious at the moment, yet it is not plain black and white. I like to cite two experiences that I have had. One customer berated me for offering

him a Stuart pecan, which grows into a nice tree here, but frost damages its flowers two or three years out of five. The next customer, when I questioned his taking a crape myrtle to the mountains of Pennsylvania, remarked that it was none of my business what he did with it.

Another angle to consider is our attitude, as well as that of our customers, that a plant should last indefinitely. I have been protesting

this view, and I think our nurserymen's association should combat it, too. When we plant a pin oak, we do plant for our lifetime or even for posterity. Yet a great many of our smaller plants give us our money's worth in a short time, and why should they have to last indefinitely? One of the plants being widely planted here, too far north, is the beautiful *Camellia sasanqua*. Suppose they do last only two or three or four mild winters; nevertheless, the customer will surely have his \$5 or \$10 worth of pleasure. A plant hobbyist will understand and take that chance, and even the average gardener will, too, if he understands.

The nurseryman has still another cultural problem to settle to his own satisfaction when he grows not altogether hardy plants. Just how

WE wish to extend the Season's kindest greetings to all our customers and friends. May your Christmas be a Joyous one and your New Year be Happy and Prosperous.

LEGHORN'S EVERGREEN NURSERIES

Geer Street

Cromwell, Conn.

REMEMBER SHERMAN'S for . . .

Alpine Currant
Hydrangea P. G.
French Lilacs
Snowball
Shade Trees
Evergreens
Phlox
Peonies
Plum Seedlings
Lining-out Stock

Let us quote you on your requirements.

SHERMAN NURSERY COMPANY
CHARLES CITY, IOWA

Hydrangea P. G.

Hydrangea P. G. (Tree Form)

Grapevines, 1-yr.

Ornamental Trees

Thorne Brewster

WILLOWBEND NURSERY

PERRY, OHIO

BOULEVARD NURSERIES

Newport, R. I.

- Quality Nursery Stock
- Lining-Out Stock
- Root-Thru Plant Pots

FRENCH PUSSY WILLOW

(Salix Discolor Selection)

Beautiful February-forcing strain. Catkin sheath is a rich mahogany-red with attractive, large silvery-pink catkins when mature.

24 to 30 ins., \$4.00 per 10, \$35.00 per 100.

BEARDSLEE NURSERY — PERRY, OHIO

much should he protect his plants artificially? Overprotected plants are sometimes less able to withstand transplanting and shipping to customers and also have less ability to stand adversity in the nursery.

With all this growing and handling of semihardy plants, we must remember the irreparable damage that can be done to a type of plant and its popularity. English box was pushed so far beyond its proper habitat that, when the inevitable severe winter came, the damage was so widespread that even this aristocrat of all evergreen shrubs never regained its rightful popularity.

TULSA, OKLA., NOTES

Extremely mild weather and little rainfall have characterized the autumn season at Tulsa. Consequently nurserymen have been able to work until late in November. A heavy rain on November 20 did much good to gardens and recent plantings.

The Tulsa Nurserymen's Association met November 10, and the board of directors of the Oklahoma State Nurserymen's Association met November 18. Plans were completed for the winter meeting of the state association, to be held at the Mayo hotel, Tulsa, January 7 and 8.

O. K. Gardens has constructed a new workhouse.

H. G. Jensen visited Houston, Tex., on business November 15 to 18.

Hunter & Sons Nursery has a new slat shed under construction. The section now complete measures 42x42 feet, but it will be extended eventually to cover an acre.

At the Reser Landscape Nursery a frostproof room has been built, which has an area of about 250 square feet and is constructed with translucent plastic walls and roof. It is to be used for the protection of tender plants. An addition to the lath house is also in process of construction. Kathleen Reser, a member of the nursery firm, spent her vacation at Washington, D. C., and New York city. R. W. C.

GEORGE M. FISHER, landscape architect for Breedlove Nurseries, Tyler, Tex., was a featured speaker recently at a meeting of the Dallas Rose Society. Mr. Fisher discussed the disease-resistant qualities of different varieties of roses.

WILLIAM MONROE, JR., of Monroe's Landscape & Nursery, at Atlanta, Ga., was guest speaker at the November meeting of the River Valley Garden Club of that city.

LINING-OUT STOCK

Write for illustrated list.

| | Per 100 | Per 1000 |
|--|----------------|---------------|
| Black Hills Spruce, XX, 12 to 15 ins. | \$50.00 | |
| XX, 9 to 12 ins. | 30.00 | |
| X, 6 to 9 ins. | 15.00 | |
| 3-2, 4 to 8 ins. | 10.00 | \$ 75.00 |
| Colorado Blue Spruce, X, 6 to 9 ins. | 16.00 | |
| 2-0, 4 to 6 ins. | 7.50 | 32.00 |
| 2-0, 2 to 4 ins. | 5.00 | 20.00 |
| Scotch Pine, XX, 18 to 24 ins. | 50.00 | |
| XX, 12 to 18 ins. | 30.00 | |
| 2-2, 6 to 12 ins. | 12.00 | 100.00 |
| Austrian Pine, 2-0, 2 to 5 ins. | 6.00 | 25.00 |
| 2-1, 2 to 4 ins. | 8.00 | 35.00 |
| Douglas Fir (Pseudotsuga Taxifolia Glauca), | | |
| 2-0, 3 to 8 ins. | 7.50 | 28.00 |
| Douglas Fir (Snowy Mountain), X, 4 to 10 ins. | 15.00 | 125.00 |
| Norway Pine, 2-1, 2 to 4 ins. | 5.00 | 25.00 |
| White Birch, X, 12 to 24 ins. | 25.00 | |

Scotch Pine Christmas Tree Stock

Our Scotch Pine, in both seedlings and transplants, is heavier stock than before. We suggest you request samples this fall before ground freezes—or better yet, come see them.

| | Per 100 | Per 1000 | Per 1000 (in lots of 10,000) | Per 1000 (in lots of 100,000) |
|---|----------------|----------------|---------------------------------------|--|
| Riga Scotch Pine, 2-1, 3 to 8 ins. | \$10.00 | \$45.00 | \$40.00 | |
| 2-0, 8 to 12 ins. | 8.00 | 42.50 | 38.50 | |
| 2-0, 3 1/2 to 8 ins. | 7.50 | 26.00 | 24.00 | \$22.50 |
| 2-0, 2 to 3 1/2 ins. | 4.00 | 16.00 | 15.00 | 14.00 |
| Scotch Pine, 2-0, 3 to 6 ins. | 5.00 | 22.00 | 20.00 | |

TERMS: Cash with order please; or 25 per cent deposit, balance before shipment. 5 per cent discount for cash with order on FALL orders.

On SPRING orders, 5 per cent discount if paid in full by December 1, 1953.

25 at 100 rate, 250 at 1000 rate; all seedlings in multiples of 50, all transplants in multiples of 10.

Packing charge included in tree prices. Minimum order \$10.00.

MATTHEWS NURSERY

Telephone 123 or 732

HARBOR SPRINGS, MICH.

HOBBS

Fall, 1953

Montmorency Cherry, 1-yr., 18 to 24 ins.
5/16-in., 7/16-in., 9/16-in. and
11/16-in. caliper. Many trees in
11/16-in. grade will run 3/4-in.

Montmorency Cherry, 2 and 3-yr.,
heavy.
XXX grade, heavy
XX grade, heavy
11/16-in. grade
9/16-in. grade

Most of the grades 11/16-in. and up
will run 6 to 7 ft. in height. Fine for
retail trade.

C. M. HOBBS & SONS, Inc.

BRIDGEPORT, IND.

Phone Indianapolis, Belmont 1812

ARBORVITAE

(Dark Green)

5-yr. liners, XX

Excellent quality. Attractive prices.

| | Per 100 | Per 1000 |
|---------------|---------|----------|
| 12 to 15 ins. | \$0.35 | \$0.30 |
| 15 to 18 ins. | .50 | .45 |
| 18 to 24 ins. | .70 | .65 |

No Packing Charge

OPERATED BY HOLTON & HUNKEL CO.
P. O. BOX 1747 MILWAUKEE, WIS.

BROWN DEER
NURSERIES

LINING-OUT STOCK

Each
Juniper Grafts **\$0.45**
(On Juniperus Virginiana
understock)

Juniperus Chinensis
Keteleeri

Juniperus Scopulorum
Blue Haven

Juniperus Scopulorum
Pathfinder

Juniperus Virginiana
Canaerti

Juniperus Virginiana
Glauca

Juniperus Virginiana Hilli

Arizona Cypress Gareei... **.40**

Seedlings

Biota Orientalis Per 1000
(Chinese Arborvitae)

1-yr., 3 to 5 ins. **\$15.00**

Austrian Pine

2-yr., 8 to 10 ins. **35.00**

SURPLUS LIST

Arborvitae, B&B Each

Berckmans, 18 to 24 ins. **\$1.75**

24 to 30 ins. **2.00**

Excelsa, 24 to 30 ins. **1.75**

30 to 36 ins. **2.00**

Brewers Hybrid.

24 to 30 ins. **1.75**

30 to 36 ins. **2.00**

Poplar, Lombardy, 2-yr. old,

3 to 4 ft. **.10**

4 to 5 ft. **.15**

5 to 6 ft. **.20**

6 to 8 ft. **.25**

Chinese Elm Seedlings

1-yr. old, Per 1000

9 to 12 ins. **\$10.00**

12 to 18 ins. **15.00**

M. MEYER NURSERY

5439 So. Hydraulic

WICHITA 15, KAN.

PLASTIC WIGWAM

[Continued from page 10]

finement that it is impossible for their root systems to develop, breathe and feed normally. The plants are forced into growth out of season (usually in February); they are drenched with growth stimulants to promote vigorous growth, and then confined in a smothering case to control humidity. Later, they are cut back quickly and exposed to the open atmosphere and burning sun.

Thus the plant suffers such a series of shocks that it emerges from the ordeal a virtual stunted dwarf similar to that produced by the Japanese art of "bon-sai." The result is a knotty, gnarled callus at the union, which apparently forever impedes normal movement in the plant.

By the simplified plastic method, the stock plants are lined out in the regular nursery row, where normal cultivation is practiced. The roots spread, breathe and feed naturally; the plants grow according to season, and there is no shocking or forcing of any kind. The stocks are worked where they stand, and the plastic propagating devices are applied. The plastic film of the propagating device, being gas pervious and moisture impervious, provides the ideal atmosphere within the unit. This encourages a quick, clean union, and a healthy, vigorous plant results. The high humidity maintained within the unit preserves the plant material in perfect condition and at the same time allows it to carry on its natural respiratory function. The unit also admits ultraviolet rays from the sun, which improve the health of the growth and also lessen the danger of burning when the plant is exposed.

In the past, many of our propagation practices have ignored the natural laws governing plant functions, and such a course always invites disaster. That the practice of propagating choice varieties by grafting is a sound one, when properly executed, is well attested by the magnificent productive orchards throughout the country. When properly applied to other subjects, the art of grafting produces just as satisfactory results, but we can never expect choice plants to result from the violation of all laws of nature governing plant functions.

Procedure Outlined

A brief description of the operation of the plastic wigwams reveals the simplicity of procedure. The common stock plants are lined out in regular nursery rows, the home garden plot or on the lawn, if desired. The plant

PFITZER JUNIPER LINERS

In Plant Bands.

6 to 8 ins. **14 1/2c**
8 to 10 ins. **20c**
10 to 12 ins. **26c**

Field-grown, Bare-root Transplants;
Branched and Trimmed.

8 to 11 ins. **40c**
11 to 14 ins. **55c**

All prices are at 1000 rate, 300 or more. If total order is less than 300, prices are 2c more on each plant.

See our classified ads for other banded evergreen and shrub liners and dormant bare-root shrub liners—including Forsythia Spring Glory and Lynwood Gold.

Not necessary to unpack our banded plants. Evergreens will continue to grow for months in shipping crates.

Book your order for spring.

McININCH GREENHOUSES
ST. JOSEPH, MO.

ORNAMENTALS

TREES SHRUBS

EVERGREENS

Wholesale growers of a
general assortment for
the best landscape plantings.

BRYANT'S NURSERIES
Princeton, Illinois

GLADS MAKE US GLAD!

Grow some Gladiolus for bouquet sales and grow a little seed for the thrill that comes with new originations. We will have list ready in few weeks.

VENNARD NURSERY
Box 394-N SIOUX CITY, IA.

VIBURNUM LANTANA

1-yr. seedlings
\$65.00 per 1000

NEWPORT NURSERY CO.
Newport, Mich.

Scarff's Nursery
FRUITS
ORNAMENTALS
LINING-OUT STOCK
Send for Complete Trade List.
NEW CARLISLE, O.

SEND YOUR SURPLUS LIST OF

Evergreens • Shrubs • Shade Trees
Flowering Trees • Fruit Trees
to:

THE PONTIAC NURSERY CO.
ROME, MICH.

is grafted to the desired variety by any method preferred. The propagating device is applied by simply drawing it down over the plant and pressing the base ring firmly against the soil. If the stock plant is a small one, such as a 4-year-old transplanted conifer (usually the best size to work in this class), the entire stock and scion will be covered by the unit and the top secured by tying it to a small stake inserted in the ground at the base of the plant. If the stock is a large one, then the top is secured to the body of the stock plant. A thin muslin shade is pinned over the unit to prevent sunburn when the work is done under the open sky.

This completes the operation, and no further attention is required until the union is completed, usually in about five to eight weeks, depending on the species. At this time, the scion starts to grow, and the base ring is raised slightly by inserting a wedge of wood or a small stone under one side. After a week or so, the tie at the top is loosened and retied so that the top gaps open partly.

Air Hardens the Growth

Thus air is gradually admitted to the unit, which hardens the growth, although the plant is still protected from the full force of the elements. At this time about one-third of the stock top should be cut away to force growth gradually to the scion. Two to four weeks later, the unit can be removed entirely and another third of the top removed.

At the end of about 12 weeks, most authorities cut away the remaining third of the stock at the union, but leaving this final third on until the following spring provides some semblance of balance between the top and the root system. The two thirds already removed force sufficient growth into the scion for the first season, and the delayed removal of the final third apparently eliminates surgical shock to the plant.

As this method observes all the natural laws and simply creates the conditions which encourage natural functions, extremely fine, vigorous plants are produced at a fraction of the effort previously required to develop shapeless dwarfs.

Everyone who has ever dealt with conifers has come across the statement that a certain variety in a collection is of a magnificent color but is a grafted plant and consequently refuses to grow. It is unfortunate that this statement has frequently been made, as its repetition has cast an undesired stigma on grafted plants. Such plants do not refuse to

PLANNING FOR SPRING PLANTING?

REMEMBER TO INCLUDE SOME OF THESE GOOD
BERRYHILL LINERS IN YOUR LIST OF STOCK:

| | Each per 100 | Each per 1000 |
|---|--------------------|---------------------|
| Cotoneaster apiculata, 2-in., pots..... | \$0.25 | \$0.22 |
| Cotoneaster apiculata, heavy, 2-yr., T..... | .35 | .32 |
| Euonymus alatus, 2-yr., pots..... | .22 | .20 |
| Euonymus alatus, 4-yr., TT..... | .45 | .40 |
| Euonymus alatus compactus, 2-yr., pots..... | .22 | .20 |
| Euonymus alatus compactus, 4-yr., T, 8 to 10 ins..... | .40 | .35 |
| Euonymus alatus compactus, 4-yr., T, 10 to 12 ins..... | .45 | .40 |
| Euonymus radicans erectus, 2-in., pots..... | .17 | .15 |
| Euonymus radicans erectus, 3-yr., field, 9 to 12 ins..... | .40 | ... |
| Euonymus vegetus, 2-yr., T..... | .30 | ... |
| Thuja occidentalis elegantissima, 3-yr., T..... | .45 | .40 |
| Thuja occidentalis nigra, 3-yr., T..... | .45 | .40 |
| Thuja occidentalis spiralis, 3-yr., T..... | .45 | .40 |
| Biota aurea nana, pot plants..... | .25 | ... |

Minimum order, 50 plants of a variety and size, please. 100 plants to the order.

Order right from this list and also let us send you our catalog with a complete list of liners and finished cash-and-carry and landscape sizes.

THE BERRYHILL NURSERY CO.

P. O. Box 696

SPRINGFIELD, O.

TAXUS.....

Our Taxus are especially nice this season — compact, dark green and three times transplanted. Varieties include: Cuspidata, Media, Capitata, Hatfieldi, Hicksi, Browni and Repandens.

We have an outstanding collection of:

- ORNAMENTAL PLANTS
- SHRUBS
- FLOWERING TREES
- SHADE TREES



Write for price list.

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4400 Reading Rd.

Cincinnati 29, Ohio

Visit our nurseries when in Cincinnati

WELLER'S PERENNIALS

With That Wonderful Root System
Headquarters for
HARDY MUMS AND PHLOX
Ask for our Perennial Catalog.
WELLER NURSERIES CO., Inc.
Leading Perennial Growers
HOLLAND, MICH.

ARMINTROUT'S EVERGREEN NURSERY ALLEGAN, MICH.

Seedlings—Transplants
Finished Stock
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Hardy Northern Grown Stock at WHOLESALE

JEWELL NURSERIES, Inc.

Write for Price List.

Box 457, LAKE CITY, MINN.

grow because they are grafted; rather, they refuse to grow because of the method by which they are grafted.

The atmosphere created within the plastic is so ideal that it performs herbaceous grafting of everything from sappy melons to the largest conifers with amazing success. The writer has even grafted muskmelons on pumpkin vines with the device, and, incidentally, they produced a fine crop when the grafting was done after July 1 here in central New York.

Because of this feature, part of the propagating load can be shifted to the less busy summer months. For example, the spruces do exceptionally well when herbaceously grafted. Herbaceous grafting in the open ground has never been possible in this country because of the dry, windy climate, although it is done on a limited scale in certain parts of France. Now, with plastics, it is possible in any climate, and the possibilities for the experimenter as well as the common propagator are unlimited.

Some experimental agency should try herbaceous grafting of varieties which are good croppers, but susceptible to disease, onto less desirable but disease-resistant rootstocks to see if the resistance can be passed into the good cropper and its progeny.

Other Uses of Wigwam

The plastic device serves well as a bell jar. It roots cuttings, protects small layers and transplants, works as a seed tester to check germination, protects buds in a late season and serves as a scion preserver.

This is but the beginning of the application of plastics to the art of propagation, and the nurseryman and gardener will have better plants quicker and easier with the aid of plastics.

MR. AND MRS. RAYMOND INMAN have opened the Norton Plant Shop, at Norton, Mass.

"The Sign of Quality"

P. O. Box 798 OKLAHOMA CITY, OKLA.

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Our 31st Year

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Evergreen Liners
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(Plant Patent No. 538).
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ST. PAUL 6, MINNESOTA

NEW PUSSY WILLOW SILVER CLAW

(Mutabile Selection)
Excellent low-growing, extremely early-flowering variety. Catkins are long and slightly curved around stem when fully developed. Ideal florists' variety.

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Minnesota Grown

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ORNAMENTAL TREES
and SHRUBS**
Fruit Trees and Berries
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Complete Selection
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FARIBAUT, MINN.

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Wholesale growers of the best
Ornamental Evergreens
Deciduous Trees
Shrubs and Roses

Write for our current trade list.

THE KALLAY BROTHERS CO.
Fairbairn, Ohio

CREDULITY

[Continued from page 6]

cines are still advertised with almost the extravagance of the panaceas of a century ago—remember Hadacol?—despite the increase in public education, the expansion of medical knowledge and the pure food and drug laws.

If the medical profession must continue to wage an unceasing fight against the errors of the public affecting its health, and sometimes even life, because of its optimistic willingness to believe, certainly the horticultural industry cannot expect an easy time in educating the public as to the difference between those things of nature which are wonderful because of their beauty and those other things, extravagantly advertised, which are wonderful only in the imagination of the copywriter.

The responsible plantsman will assist this cause, first of all, by care and accuracy in his own copy, being careful to indicate grade, size and quality, as well as including the botanical name of the plant if there is any possibility of confusion in the common name. Catalog descriptions should certainly indicate hardiness and also such factors as soil dryness, sun exposure, etc., when they are important enough to affect the success of ordinary plantings. Many of these are well known to the nurseryman, but must be learned by amateur gardeners the hard and expensive way, by experience. They will highly value the advice provided in a catalog which saves their money, time and labor by enabling them to avoid emphatic failures. When the catalogs and other advertising of all responsible nurserymen generally can be given the complete trust and confidence that those of many firms enjoy now, the public's ability to distinguish misleading advertising will greatly increase.

Beyond that, it goes without saying that the further is carried the education of the gardening public, the fewer will be the credulous prospects of irresponsible advertisers.

KELLY BROS. NURSERIES, Dansville, N. Y., have completed a 40x175-foot addition to their storage space. Of this, 1,600 square feet will be refrigerated, giving the nursery 3,200 square feet of refrigerated space.

PAUL ROBINSON, who has been in the nursery business at Houston, Tex., for the past eight years, recently opened Paul's Green Thumb Nursery, at that city.

EVERGREENS

CONIFERS

Baker Arborvitae
Berckmans Arborvitae
Bonita Arborvitae
Excelsa Arborvitae
Newark Arborvitae
American Arborvitae (Sheared)
American Pyramidal Arborvitae
American Globe Arborvitae
Cedrus Deodara
Juniper, Irish
Juniperus Andorra

Juniperus Excelsa Stricta
Juniperus Fastigiata
Juniperus Pfitzeriana
Juniperus Pfitzeriana Compacta
Juniperus Pfitzeriana Nana
Juniperus Sabina von Ehrh
Juniperus Virginiana Canaerti
Juniperus Virginiana Dundee
Juniperus Virginiana Glauca
Pinus Nigra

BROAD-LEAVED

Elaeagnus
Euonymus Patens
Ilex Opaca East Palatka

Ilex Vomitoria
Nandina Domestica
Photinia Serrulata

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PINK FLOWERING
DOGWOOD

Dormant buds for lining out and growing on.

| | Per 10 | Per 100 | Per 1000 |
|----------------------|---------|----------|-----------|
| (Budded Summer 1953) | \$ 4.00 | \$ 30.00 | \$ 250.00 |
| 6 to 12 ins. | 7.00 | 65.00 | 500.00 |
| 12 to 18 ins. | 9.00 | 85.00 | 750.00 |
| 18 to 24 ins. | 12.50 | 100.00 | 850.00 |
| 2 to 3 ft. | 17.50 | 150.00 | 1350.00 |
| 3 to 4 ft. | 40.00 | 300.00 | 2750.00 |
| 4 to 5 ft. | 60.00 | 500.00 | 4000.00 |

Boyd Nursery Co., McMinnville, Tenn.

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Bulbs and Shrubs

"America's Finest"

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Springbrook Gardens

MENTOR, O.

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WILLIAM CROSBY HORSFORD
Charlotte, Vermont

ALL BREEDS CHOICE

ZINNIA
GIANT CACTUS

Blaze. The All-American Winner of this year. Brilliant mandarin red, a fiery beauty, it bursts into a profusion of the most vivid blooms. Tr. pkt., 75c; 1/8 oz., \$1.25; 1/4 oz., \$2.25; 1 oz., \$6.50.

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GROWERS EXCHANGE, Inc.

P. O. Box 264 FARMINGTON, MICH.

Coming Events



MEETING CALENDAR

January 4, New York State Nurserymen's Association, Hotel Roosevelt, New York, N. Y.

January 4 to 6, convention of eastern nurserymen, Hotel Roosevelt, New York, N. Y.

January 4 and 5, trade mart of the Texas Association of Nurserymen, Hotel Driskill, Austin, Tex.

January 4 to 15, short course for nurserymen, sponsored by Virginia Polytechnic Institute, Blacksburg, Va.

January 5 and 6, Western Association of Nurserymen, Hotel Muehlebach, Kansas City, Mo.

January 6 and 7, Maryland Nurserymen's Association, Emerson hotel, Baltimore, Md.

January 7, Connecticut Nurserymen's Association, Waverly Inn, Cheshire, Conn.

January 7 and 8, Oklahoma State Nurserymen's Association, Mayo hotel, Tulsa, Okla.

January 7 to 9, Iowa Nurserymen's Association, Hotel Kirkwood, Des Moines, Ia.

January 11 to 13, garden school and meeting of the Idaho Nurserymen's Association, Hotel Boise, Boise, Ida.

January 11, National Mail Order Nurseryman's Association, Hotel La Salle, Chicago.

January 11, National Landscape Nurserymen's Association, Hotel La Salle, Chicago.

January 12 to 14, Illinois State Nurserymen's Association, Hotel La Salle, Chicago.

January 12 to 14, short course and meeting, North Carolina Association of Nurserymen, North Carolina State College, Raleigh, N. C.

January 13 to 15, Canadian Association of Nurserymen, Royal York hotel, Toronto, Ont., Canada.

January 18 and 19, Washington State Nurserymen's Association, State College of Washington, Pullman, Wash.

January 18 to 20, short course for arborists, landscape gardeners and nurserymen, sponsored by the department of horticulture, Ohio State University, at Neil House, Columbus, O.

January 19, Massachusetts Nurserymen's Association, Hotel Kenmore, Boston, Mass.

January 19 to 21, Indiana Association of Nurserymen, Purdue University, Lafayette, Ind.

January 20 and 21, 2-day school for nurserymen given by Long Island Agricultural and Technical Institute, Knapp Hall lounge, Farmingdale, N. Y.

January 20 to 22, Ohio Nurserymen's Association, Neil House, Columbus, O.

January 22, winter meeting of the Western New York Nurserymen's Association, Sheraton hotel, Rochester, N. Y.

January 24 to 26, Virginia Nurserymen's Association, Inc., John Marshall hotel, Richmond, Va.

January 27 and 28, short course for

nurserymen given by the Connecticut Nurserymen's Association in cooperation with the department of plant sciences of the University of Connecticut, at the University of Connecticut, Storrs, Conn.

January 27 and 28, Oregon Association of Nurserymen, Multnomah hotel, Portland, Ore.

January 27 to 29, Michigan Association of Nurserymen, Hotel Statler, Detroit, Mich.

January 28 and 29, New Jersey Association of Nurserymen, Chalfonte-Haddon Hall hotel, Atlantic City, N. J.

January 31 to February 2, Tennessee Nurserymen's Association, Patton hotel, Chattanooga, Tenn.

February 2 to 4, New England Nurserymen's Association, Hotel Kenmore, Boston, Mass.

COME TO KANSAS CITY

64th annual meeting of the

WESTERN ASSOCIATION OF NURSERYMEN

January 5 and 6, 1954

Hotel Muehlebach

A splendid instructive program has been arranged featuring Nursery Costs and Management.

Write Hotel Muehlebach, Kansas City, Mo., at once for reservations.

THE LAKETON NURSERIES, Laketon, Ind.

Quality Nursery Stock since 1880

Over 100 Years' Nursery Experience

ILGENFRITZ
NURSERIES, Inc.

The Monroe Nursery
MONROE, MICHIGAN

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DWARF BLUE-LEAVED ARCTIC WILLOW

(Salix Purpurea Nana)

Beautiful, new hedging shrub for all northern localities. Will thrive in practically any type of soil. Has fine-cut, bluish leaf and makes spectacular low-to-medium hedge. Should have full sun to develop to maximum attractiveness. 12 to 15 ins., 1-yr. stock, \$12.00 per 100. \$100.00 per 1000.

BEARDSLEE NURSERY, PERRY, OHIO



EVERGREENS

Growers of Quality Evergreens
Lining-out Stock a Specialty

Write for Trade List

EVERGREEN NURSERY CO.
Established 1864 : STURGEON BAY, WIS.

AMERICA'S BEST SOURCE FOR HARDY PLANTS

WRITE FOR
TRADE LIST

MENTOR,
OHIO

Wayside Gardens



America's Favorite Flowering Shrub Liners

Our supply on some of these items is very limited, so rush your orders in immediately.

All stock is field-grown.

First Come—First served—Prices are F.O.B. McMinnville, Tenn.

| Prices are per 1000 | 4 to 6 ins. | 6 to 12 ins. | 12 to 18 ins. |
|---------------------------------------|-------------|--------------|---------------|
| Abelia Grandiflora, C..... | \$ 75.00 | \$100.00 | \$150.00 |
| Althaea, Double Red, C..... | 25.00 | 30.00 | 40.00 |
| Althaea, Double Pink, C..... | 25.00 | 30.00 | 40.00 |
| Althaea, Double Purple, C..... | 25.00 | 30.00 | 40.00 |
| Amorpha, False Indigo, S..... | 20.00 | 25.00 | 30.00 |
| Benzoin, Spicebush, S..... | 15.00 | 20.00 | 30.00 |
| Cephalanthus, Buttonbush, C..... | 25.00 | 35.00 | 45.00 |
| Cornus, Red Ozier Dogwood, S. | 7.50 | 10.00 | 15.00 |
| Cydonia Japonica, upright red, C..... | 70.00 | 90.00 | 135.00 |
| Deutzia, Pride of Rochester, C..... | 17.50 | 20.00 | 25.00 |
| Euonymus Americanus, L.O. div. | 15.00 | 17.50 | 20.00 |
| Forsythia Fortunei, C..... | 20.00 | 25.00 | 35.00 |

| Prices are per 1000 | 4 to 6 ins. | 6 to 12 ins. | 12 to 18 ins. |
|--|-------------|--------------|---------------|
| Hydrangea P. G., C..... | \$ 40.00 | \$ 60.00 | \$ 90.00 |
| Lilac, Persian, C..... | 70.00 | 90.00 | 135.00 |
| Lonicera Fragrantissima, C..... | 50.00 | 65.00 | 90.00 |
| Lonicera Tatarica, pink, C..... | 20.00 | 30.00 | 40.00 |
| Spiraea Anthony Waterer, C..... | 100.00 | 150.00 | 200.00 |
| Spiraea Billiardii, pink, C..... | 22.50 | 25.00 | 30.00 |
| Spiraea Froebeli, C..... | 75.00 | 100.00 | 150.00 |
| Spiraea Reevesiana, C..... | 40.00 | 50.00 | 60.00 |
| Symphoricarpos, Red Snowberry, C..... | 17.50 | 20.00 | 25.00 |
| Viburnum Tomentosum, Japanese Snowball, C..... | 100.00 | 175.00 | 250.00 |
| Weigela, Eva Rathke, red, C..... | 75.00 | 90.00 | 135.00 |
| Weigela, Rosea, pink, C..... | 25.00 | 30.00 | 40.00 |

HEDGE PLANTS

Ligustrum Amurense, Amur River North Privet

Ligustrum Ovalifolium, California Privet

Ligustrum Ibolium, Ibolium Privet

| | Per 100 | Per 1000 |
|--------------------------------------|---------|----------|
| L.O. Field-grown, 1 and 2 canes..... | \$ 3.00 | \$22.50 |
| 6 to 12 ins., 2 br. and up..... | 3.50 | 30.00 |
| 12 to 18 ins., 2 br..... | 5.00 | 45.00 |

| | Per 100 | Per 1000 |
|----------------------------------|---------|----------|
| 18 to 24 ins., 2 br..... | \$ 6.50 | \$60.00 |
| 12 to 18 ins., 3 br. and up..... | 7.00 | 65.00 |
| 18 to 24 ins., 3 br. and up..... | 10.00 | 75.00 |

—Write For Our New Descriptive Catalog—

BOYD NURSERY CO.

McMINNVILLE, TENN.

February 3 and 4, Pennsylvania Nurserymen's Association, Warwick hotel, Philadelphia, Pa.

February 8 and 9, National Arborist Association, Statler hotel, Washington, D. C.

February 16 to 18, Pennsylvania nurseryman's conference, sponsored by Pennsylvania State College, State College, Pa.

February 17 to 19, Midwestern chapter of the National Shade Tree Conference, Hotel La Salle, Chicago.

OKLAHOMA CONVENTION

The program of the winter meeting of the Oklahoma State Nurserymen's Association, to be held January 7 and 8 at the Mayo hotel, Tulsa, Okla., will emphasize advertising and the various phases of nursery operation that assist in selling. A discussion of the horticultural training program of Oklahoma Agricultural and Mechanical College will also have an important place on the program. The association expects an excellent attendance at the 2-day meeting.

An outstanding roster of speakers will include Dr. L. H. Burton, of the University of Arkansas, who will talk on landscaping; A. E. Manhardt, general manager of the Kaiser-Frazer Corp., Wichita, Kan., who will address the group on "Sales"; Mario Sanseverino, O. K.

LANDSCAPE MATERIAL

20,000 Red Pine

(Compact, full-bodied trees, pruned every year for 4 years.)

| RED PINE, specimen grade | Each |
|--------------------------|---------|
| 3 1/2 to 4 ft., B&B..... | \$ 4.00 |
| 4 1/2 to 5 ft., B&B..... | 5.50 |
| 5 1/2 to 6 ft., B&B..... | 6.50 |

WHITE-FLOWERING DOGWOOD, standard

| | |
|----------------------|------|
| 3 to 4 ft., B&B..... | 2.50 |
| 4 to 5 ft., B&B..... | 3.00 |
| 5 to 6 ft., B&B..... | 3.50 |
| 6 to 7 ft., B&B..... | 4.50 |
| 7 to 8 ft., B&B..... | 6.50 |
| 8 to 9 ft., B&B..... | 7.50 |

For multiple trunks, add 10%.

TAXUS CANADENSIS

| | |
|-------------------------|------|
| 18 to 24 ins., B&B..... | 2.50 |
| 24 to 30 ins., B&B..... | 3.00 |

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BELLVILLE, O.

HENRY NURSERIES

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Growers of General Nursery Stock.

Visitors Welcome.

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NEW
FRESH
VIGOROUS
LARGE
OUTDOOR
POT-GROWN
LINERS

➔ FROM VERHALEN

| | | |
|-------------------|-----|------------|
| BERCKMANS | 18c | Deep |
| PFITZER | 18c | 2 1/2-inch |
| SPINY CREEK | 18c | Pots |
| BAKER | 17c | 30 Other |
| MAGNOLIA | 15c | Varieties |

Price includes paper pots and packing.
100 per carton F. O. B. Scottsville.

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NURSERY CO.

SCOTTSVILLE 12140 HARRY NINES BLVD.
TEXAS • DALLAS, TEXAS

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Grown in a high altitude and an arid climate.

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|---------------------------------------|---|
| 5,000 Spreading Junipers, up to 3 ft. | 25,000 Broad-leaved Evergreens, field-grown |
| 10,000 Arborvitae, up to 6 ft. | 50,000 Container-grown Plants, 1-gal. and 4-gal. cans |
| 10,000 Grafted Junipers, 3 to 6 ft. | Lining-out Stock |
| 10,000 Shade Trees | Hedge Plants |
| Flowering Shrubs | |

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Please come and see the best stock that we have ever grown.

Location: Fifty miles northwest of San Antonio.

One hundred miles west of Austin.

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J. R. Boyd, President John T. Boyd, Vice-president
H. B. Stubblefield, Supt.

FOREST NURSERY CO.

McMinnville, Tenn.

Established 1887

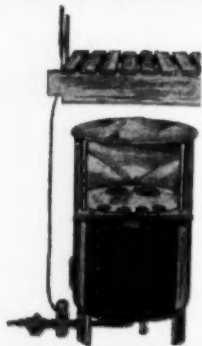
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EVERGREENS, VINES and CREEPERS

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ORCHIDS and GREENHOUSES



Manual — Automatic
Write for prices.

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Prices F. O. B. Houston—
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Coniferous Evergreens

Deciduous Magnolias

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Columbus Mississippi

AZALEAS

Broad-leaved Evergreens and a
general line of quality ornamentals.

THE TANKARD NURSERIES
EXMORE, VA.

MORNING STAR NURSERY

Rives, Tennessee
Wholesale Growers
Evergreens, Trees
Deciduous Shrubs, Roses
Send us your want list

Gardens, Tulsa, who will talk on "Nurserymen's Responsibilities," and T. E. Kashner, of the National Outdoor Advertising Co., who will discuss advertising. Panel discussions on selling, legislation affecting nurserymen, the new school of horticulture at Oklahoma Agricultural and Mechanical College and new plants for the area are also scheduled during the 3-day event.

The banquet, the main social event, is scheduled for the evening of January 7. Presentation of annual awards and dancing will be highlights of the evening.

CONNECTICUT COURSE

Plans have been completed for the second annual short course for nurserymen, to be held at the University of Connecticut, Storrs, Conn., January 27 and 28. Dr. Henry T. Skinner, director of the United States National Arboretum, Washington, D. C.; Dr. T. W. Kerr, research entomologist, agricultural experiment station, University of Rhode Island, and John Vermuellen, of John Vermuellen & Son, Inc., Neshanic Station, N. J., are to be the principal speakers of the 2-day session.

The Connecticut Nurserymen's Association reports that some 24 varieties of taxus will be donated by Connecticut nurserymen for exhibit in the Agricultural building at the university during the period of the short course. After the meeting, the yews will be donated to the university to be planted as a permanent exhibit.

LONG ISLAND SCHOOL

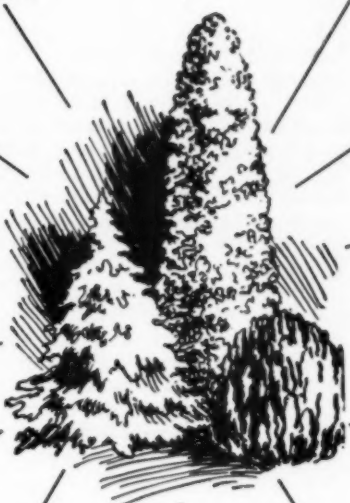
The ninth annual 2-day nursery school conducted by the Long Island Agricultural and Technical Institute will be held January 20 and 21 in the Knapp Hall lounge, at Farmingdale, N. Y. Dr. Clement Bowers will give an illustrated talk on selection and use of rhododendrons in the landscape on the afternoon of January 21.

Further information may be obtained from Clarence E. Lewis, Long Island Agricultural and Technical Institute, Farmingdale, N. Y.

ARBORISTS TO MEET

The National Arborist Association will hold its winter meeting February 8 and 9, at the Statler hotel, Washington, D. C.

THE Sexton Lawn Service is a new nursery at Collierville, Tenn.



EVERGREENS
of many kinds

AZALEAS

BOXWOODS

HOLLIES

**BROAD-LEAVED
EVERGREENS**
of many kinds

**FLOWERING
SHRUBS**

Season's

Greetings

Write for our
complete list
of liners

SEEDLINGS

MAGNOLIAS

GRAFTS

LINERS

GRESHAM'S NURSERY

R. F. D. 9 RICHMOND, VIRGINIA

Obituary

Charles Edward Judson

Charles Edward Judson, 78, developer and owner of the Judson Fruit Farms of Bristol, Ind., died Friday, October 16th. He was closely associated with his son, Victor Judson, owner of the Judson Wholesale Nurseries, Bristol, Ind.

In 1893 Mr. Judson set his first apple orchard. Since then his fruit farms have become widely known.

Mr. Judson was born near Bristol, Sept. 23, 1875. Besides his son, he is survived by his wife, one daughter, seven grandchildren, three great grandchildren and one niece.

John Robert Johnson

John Robert Johnson, 87, died November 5 in Holy Name hospital, Teaneck, N. J. Mr. Johnson was a former mayor of Passaic and a well-known landscape architect. His survivors include a daughter, a brother and a sister.

EVERGREENS

Finished Stock Lining-out Stock

Ask for list.

PAUL ARTERBURN NURSERY
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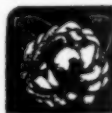
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| 18 | to 24 ins. | 3.00 | 2.75 |
| 2 | to 2½ ft. | 3.50 | 3.25 |
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| | | | |
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| | | | |
|----|------------|------|------|
| 18 | to 24 ins. | 3.25 | 3.00 |
| 2 | to 2½ ft. | 4.00 | 3.75 |
| 2½ | to 3 ft. | 4.75 | 4.50 |
| 3 | to 3½ ft. | 6.00 | 5.75 |

SPRUCE — Norway

| | | | |
|----|------------|------|------|
| 18 | to 24 ins. | 2.25 | 2.00 |
| 2 | to 2½ ft. | 2.75 | 2.50 |
| 2½ | to 3 ft. | 3.50 | 3.25 |

TAXUS — Hicksi

| | | | |
|----|------------|-------|-------|
| 15 | to 18 ins. | 2.75 | 2.50 |
| 18 | to 24 ins. | 3.50 | 3.25 |
| 2 | to 2½ ft. | 4.50 | 4.25 |
| 2½ | to 3 ft. | 6.00 | 5.75 |
| 3 | to 3½ ft. | 7.50 | 7.25 |
| 3½ | to 4 ft. | 10.00 | 9.50 |
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| | Per 100 | Per 1000 |
|---|---------|----------|
| Hydrangea Paniculata <i>Grandiflora</i> (Peegee Hydrangea) | | |
| 4 to 6 ins., 1-yr., C..... | \$ 5.00 | \$ 40.00 |
| 6 to 12 ins., 1-yr., C..... | 6.00 | 55.00 |
| 12 to 18 ins., 1-yr., C..... | 8.00 | 75.00 |
| 12 to 18 ins., 2-yr., well-br. | 9.50 | 90.00 |
| 18 to 24 ins., 2-yr., well-br. | 20.00 | 150.00 |
| 2 to 3 ft., 2-yr., well-br. | 25.00 | |
| Spiraea Vanhouttei (Van Houtte Spirea) | | |
| 6 to 12 ins., 1-yr., C..... | 3.50 | 30.00 |
| 12 to 18 ins., 1-yr., C..... | 4.50 | 40.00 |
| 12 to 18 ins., hedging..... | 6.00 | 55.00 |
| 18 to 24 ins., 2-yr., well-br. | 16.00 | 150.00 |
| 2 to 3 ft., 2-yr., well-br. | 25.00 | |
| Per 10 Per 100 | | |
| Cornus Florida (White-flowering Dogwood) | | |
| 2 to 3 ft., 3-yr., well-br..... | \$ 4.50 | \$ 40.00 |
| 3 to 4 ft., 3-yr., well-br..... | 6.50 | 60.00 |
| 4 to 5 ft., 3-yr., well-br..... | 11.00 | 100.00 |
| Tilia Americana (American Linden) | | |
| 2 to 3 ft., 3-yr., well-br..... | 3.00 | 25.00 |
| 3 to 4 ft., 3-yr., well-br..... | 4.00 | 35.00 |
| 4 to 5 ft., 3-yr., well-br..... | 6.00 | 50.00 |
| 5 to 6 ft., 3-yr., well-br..... | 8.00 | 75.00 |
| 6 to 8 ft., 3-yr., well-br..... | 11.00 | |

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| | | |
|---|---------|----------|
| Rhododendron Maximum , <i>Kalmia Latifolia</i> , <i>Ilex Opaca</i> , <i>Tsuga Canadensis</i> | Per 100 | Per 1000 |
| 3 to 6 ins., S..... | \$2.50 | \$20.00 |
| 6 to 9 ins., S..... | 3.50 | 30.00 |
| 9 to 12 ins., S..... | 5.50 | 50.00 |
| 12 to 18 ins., S..... | 7.00 | 65.00 |
| Per 10 Per 100 | | |
| Acer Rubrum (Red Maple) | | |
| Acer Saccharum (Sugar Maple) | | |
| 4 to 5 ft., well-br..... | \$4.50 | \$40.00 |
| 5 to 6 ft., well-br..... | 6.00 | 55.00 |
| 6 to 8 ft., well-br..... | 7.50 | 65.00 |

CUMBERLAND PLATEAU NURSERY

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HORTICULTURAL MEETING

[Continued from page 9]

ciation of Nurserymen will cooperate in establishing the aims of the code.

Paul F. Frese, editor of Popular Gardening, was moderator for the roundup of brief resumes of the activities of the many member societies. General aims of most societies included registration of new varieties; judges' courses and accreditation of official judges; sponsoring of annual shows; publication of bulletins and year books; establishment of test gardens; incentive awards and competitions, such as the A. A. N. competition in the field of industrial landscaping; publicity programs, such as the "Plant Ohio" program, and round robin letters, such as those used by the Begonia Society, which started as a round robin group and now boasts 2,300 members.

James P. Gurney, executive secretary of the American Rose Society, told of the increase of membership in the past 10 years from 4,000 to 14,000 members and of the society's new headquarters, at Columbus, O., where a municipal rose garden has been planned to accommodate more than 50,000 rose plants. Such growth is attributed in large part to the activity of a paid secretary, Dr. Raymond C. Allen, now director of Kingwood center, the new botanical establishment in Ohio. Dr. Allen's work in the rose society is now handled by Dr. Fred J. Nisbet, as editor, and Mr. Gurney, as secretary.

Another device for attracting members to the rose society is the free mailing of buyers' guides and beginners' guides.

The most remarkable growth has been in the Gloxinia Society, which has gained 3,000 members in its first three years. The founder is a high school student, now 17 years of age.

A ballot for election of officers and members of the board of directors was presented by the nominating committee and was accepted by unanimous vote of the delegates. Every organization in the A. H. C. has at least one voting delegate and is entitled to an additional delegate for each thousand members. Officers are elected for 2-year terms but cannot serve two consecutive terms. It is the earnest intent that the A. H. C. and its policies be widely representative of the nation's horticultural enterprises.

Officers, Directors Elected

Carl F. Wedell, head of the school of horticulture at Long Island Agricultural and Technical Institute,

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All stock in 2 1/4-in. pots except where otherwise specified. All prices quoted per 100, F.O.B. nursery. Packing extra at cost.

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| BERBERIS THUNBERGI | 15.00 |
| ATROPURPUREA | 15.00 |
| BUXUS CHINENSIS | 15.00 |
| (Chinese Boxwood)..... | 15.00 |
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| ENGLISH LAUREL | 15.00 |
| GARDENIA MYSTERY , heavy, 3-in. pots..... | 15.00 |
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Your Profits Grow in Verhalen Plants

was chosen president. J. Franklin Styer, of the American Peony Society, was chosen first vice-president. Arno H. Nehrling, secretary of the Massachusetts Horticultural Society, was chosen second vice-president. George H. M. Lawrence, director of the Bailey Hortorium, at Cornell University, was named secretary.

Eight directors were chosen who had memberships in national organizations. They were Raymond C. Allen, of the American Rose Society; Wendell H. Camp, of the Pennsylvania Horticultural Society; Albert J. Irving, of the Horticultural Society of New York; Frederic Lee, of the American Horticultural Society; E. L. D. Seymour, of the Men's Garden Clubs of America; Samuel L. Emsweller, of the North American Lily Society; Richard P. White, of the A. A. N., and Mrs. Lewis M. Hull, of the National Council of State Garden Clubs.

Four directors were chosen representing regional organizations or as directors at large. They were Cynthia Westcott, Joseph J. Lane, L. H. McDaniels and Bruce Krasberg.

In an illustrated talk, Henry Teuscher, curator of the Montreal Botanical Gardens, Montreal, Que., showed graphically how the gardens have become an indispensable unit in the life of the city. After leaving Germany, Mr. Teuscher was connected with the Arnold Arboretum and later the Boyce Thompson Institute before going to Montreal. Confidence of the Montreal populace in his work is shown by the large appropriations for conservatories now under construction. Educational programs for children and adults have had marked success during Mr. Teuscher's tenure. Civic pride aroused as a result of the Montreal gardens' programs shows the in-

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| SEPTEMBER (Fall-bearing variety) | 10 | 100 | 1000 |
|---|--------|---------|----------|
| Transplants | \$3.00 | \$20.00 | \$150.00 |
| 1-Yr. No. 1 | 2.00 | 15.00 | 100.00 |
| EARLIERED (Very early one-crop variety) | | | |
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Here are two new and outstanding Red Raspberries that have recently been introduced; the September by Geneva, New York and the Earliered by South Haven, Michigan. Both have been tested over a period of years and have proven to be outstanding in their class.

The September ripens approximately a month earlier than the Indian Summer, producing a much firmer berry, large in size and light in color. A very vigorous grower which also produces an early summer crop.

The Earliered is outstanding for its earliness. It ripens a week to ten days ahead of Latham—captures the market at peak prices. Large, well-formed, light-colored fruit. A variety which has proven itself outstanding for an early Red Raspberry.

GIVE THEM A TRIAL—THEY HAVE SALES APPEAL. SOMETHING NEW, SOMETHING GOOD.

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spirational character of a well-conceived public service effort.

An informal address by Dr. Edgar Anderson, assistant director of the Missouri Botanical Garden, opened some of the fascinating vistas in the realm of scientific research. In tracing his studies of economic plants, Dr. Anderson started with herb-loving ladies of New England and threaded into his narrative the tax records of Montezuma's era. Peculiar distribution patterns of such food plants as popcorn and amaranthus (pigweed relative) dovetail with some of the theories archaeologists hold relative to migrations of Asiatic peoples. The trail circles back to today's problems of food scarcity in a populous world.

Impact of Insecticides on Economy

Dr. Floyd F. Smith, of the United States Department of Agriculture's bureau of plant entomology, traced the impact of newer insecticides on our economy. Many former scourges are no longer problems. Successes of DDT and its companion sprays have caused the U. S. D. A. grape pest control program to be disbanded. The peach moth in the south is now controlled by two DDT sprays and large-scale timber protection is now practiced by air. As little as two ounces of Aldrin on each acre has saved crops from grasshopper plagues. The beneficial effects of spraying with insecticides include 200-bushel-an-acre yields in Maine potato fields.

Centipedes in greenhouses are now controlled easily with dusts and sprays of Lindane and Parathion. The box leaf miner, formerly uncontrollable, is stopped by one timely application of DDT or Lindane. The bearded iris borer is no longer a threat when early summer sprays are employed. Sulpha-TEPP is a new specific for soft brown scale in greenhouses, and the systemic poisons such as Systox have increased uses. Many miticides, such as Dimite, Aramite and Ovotran, are giving better mite control.

Some new problems arise as a result of growth-regulating side effects on some plants. Kalanchoe is sensitive to DDT and can be used as an indicator of the substance. Overdoses of HETP have caused 2,4-D-like effects on Better Times roses; the foliage becomes reduced and has a fringed margin. Dr. Smith showed dilution charts for the modern insecticides and indicated that proper dilution and timing are the key to effective pest control.

Dr. Percy W. Zimmerman, of the

Boyce Thompson Institute, traced the actions and interactions of growth-controlling substances. Propagators recognize that all parts of plants, when growing, produce hormones that regulate activities of other parts. In propagation, hardwood cuttings have some root-inducing action, but others will not root unless a leafy shoot is on the cuttings. In blueberries, an effective dipping agent with synthetic hormone substances is used to dissolve them in alcohol.

Many applications of hormone action were mentioned. A few were prevention of pre-harvest drop of apples, induced flowering of litchi nuts, lengthening of bloom of Japanese cherries, treatment of Christmas greens and prevention of potato sprouts in storage.

In weed control, 20 million pounds of 2,4-D were produced last year. This new field is now served by a new journal, "Weeds."

Dr. Zimmerman cited the many opportunities open for further developments. One instance was the chemical killing of cotton to permit early picking. The dead leaves remain on the plants, giving concealment to snakes, which causes a psychological block with pickers. A substance that will cause leaf abscission is needed and will probably be found in the future.

Daniel Dowd, of the school of horticulture at Long Island Agricultural and Technical Institute, said that the field of new plant introductions is so wide that an annual directory could be employed. To limit the material, attempts were made to obtain recommendations on one or two outstanding varieties of each plant subject. When it is seen that 300 hemerocallis, 300 bearded iris, 300 gladioli, 100 peonies and 100 chrysanthemums are introduced each year and that judgments are not reached for several years, the problem thickens. Testing programs by the All-America Selections do cut through the confusion in the case of annuals, vegetables, roses and, in 1954, for gladioli.

Recommended Shade Trees

Shade trees recommended by Edward Scanlon, editor of "Trees," include Cleveland, a Norway maple clone with upsweeping branches and upright oval form; Charles F. Irish, a Norway maple clone with upsweeping branches, globular form and smaller leaves, and Armstrong, a red maple of fastigate form.

These three trees fit the objective of selecting basic tree forms of Nor-

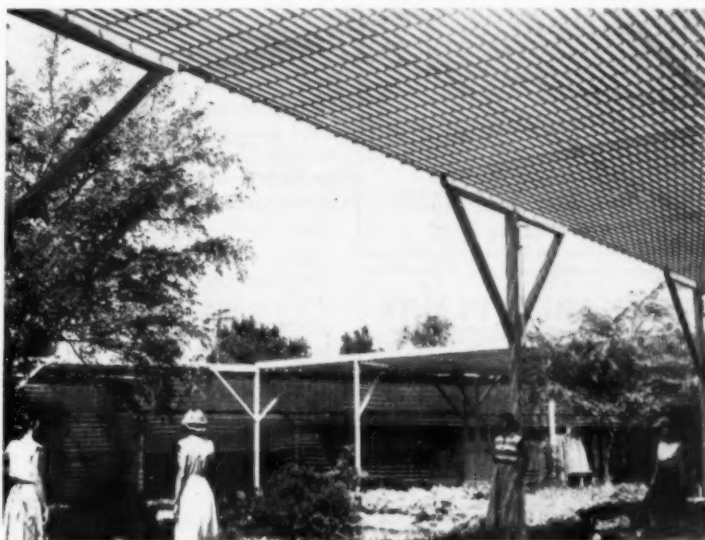
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Miniature buds and flowers. Hardy, ever-blooming, very bushy. Grows 8 to 10 inches high. Plant in pots, window boxes, patio planters. Excellent for low borders. May be trimmed like boxwood. Plant about 10 inches apart. Edge your walks, rose and flower beds with Miniature Roses for beauty and permanence.

| | 2 1/4-in. pots | Per 100 |
|-----------------------|----------------|---------|
| Frosty, white | | \$65.00 |
| Cutie, pink | | \$0.00 |
| Centennial Miss, pink | | \$0.00 |
| Pink Joy, pink | | \$5.00 |
| Oakington Ruby, red | | \$0.00 |
| Rosa Rouletti, rose | | \$5.00 |
| Thumbelina, red | | \$5.00 |

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Rhododendrons Camellias
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Finest Quality

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RETICULATAS — HOLLY

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First offering in sizable quantities to the trade. Weeks earlier than Indian Summer—the fall crop is more certain.

| | Per 100 | Per 1000 |
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| No. 1 Suckers 3/16-in. cal. and up..... | \$12.50 | \$100.00 |
| Transplants 1/4-in. cal. and up | 17.50 | 150.00 |

We have a complete list of other red raspberries and small fruits. Write for list.

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way, red and sugar maples and ginkgo so that varieties may be available to fit the space needs on modern streets and home grounds.

A new magnolia hybrid, Dr. Merrill, has star magnolia characteristics but is faster growing and easier to propagate.

The Dorothea crab apple is not new but has proved superior to the run of advertised trees. Its foliage is clean, and it is resistant to insect and disease injury. A height of 15 to 20 feet above the ground is possible. Its form is spreading, and it is a persistent annual bearer with orange-checked yellow fruits five eighths of an inch in diameter. It has rose-pink, semidouble flowers two inches in diameter.

The Katherine is another proved crab apple. It grows upright to 15 feet. Its flowers have 20 petals and are two inches in diameter. The pink buds fade to white, but it is the earliest to bloom and longest lasting. The tree tends to be a persistent biennial bearer of its 1/2-inch red-checked orange fruits.

Recommended shrubs include the white Azalea vaseyi, developed by LaBars' Rhododendron Nursery, Stroudsburg, Pa.; Clethra alnifolia Pink Spire, developed by the Glenn Dale, Md., station of the bureau of plant introduction; Rhododendron mucronulatum Cornell Pink, a true pink rhododendron developed by the Morris Arboretum, at Philadelphia, and Cydonia rowellana, an English introduction, vermilion in color, growing to a height of three feet.

The Old Westbury yew, a seedling form of Taxus hicksii, released by Hicks Nurseries in their 100th year, is also recommended. The yew has short, dense branches requiring no trimming in the nursery. It is an upright columnar plant, growing five to six feet high and one and one-half to two feet wide.

Many Roses Selected

Rose recommendations were headed by the 1954 All-America Rose Selections' Mojave and Lilibet.

In the tea rose class were mentioned the apricot-orange Pennsylvania, the orange-hued Centennial, the pink and gold Flirtation, the yellow and scarlet bicolor Pageant, the coral-orange blend Miami, the scarlet Tudor, the opal-carmine blend Dean Collins, the yellow Sun Valley, the clear pink Bouquet, the clear pink Henry Ford, the American Beauty red President Eisenhower and the dark red Mardi Gras.

Floribundas cited included the

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AIDA—Gladiolus-flowered, broad, rounded petals. The base color of Aida is old rose overlaid with delicate salmon—sheer pastel loveliness.

LA BOHEME—The soft rosy-peach overlaid with delicate pearl colors the flowers in a manner that baffles description.

RIGOLETTO—Rigoletto produces a beautiful mass of florets of pure canary-yellow when first opening, passing to light lemon-yellow as the flowers develop.

MME. BUTTERFLY—Soft horizon-yellow washed with overtones of day-break-pink tint, coloring the flower in a most beautiful manner.

Prices for the above named varieties: \$3.00 per 10; \$25.00 per 100; \$225.00 per 1000.

For Free Color Prints, Write:

pink Frolic, the white Glacier, the orange-red Cocorico, the scarlet Embers, the scarlet Siren, the scarlet Sister Kenny, the dark red Red Favorite and the red Pygmy Red.

One miniature and one rugosa were included. The miniature was the pink Tinkerbelle, and the rugosa was the silver-pink Frau Dagmar Hartopp.

Climbers recommended were the pink everbloomer Parade, the pink pillar everbloomer Renae, the red pillar everbloomer Brownell 73 and the scarlet pillar Descanso.

In the chrysanthemum class, the Ethel Waters, a light yellow mutation of Ivory Glow (U. S. D. A.) brought out by Arthur Thomas, Syosset, N. Y., is an upright, well-formed decorative mum.

Lee Powell, Miguel and Orpheus were award-winning outdoor mums in local shows of 1953.

The concluding feature of the Eighth American Horticultural Congress was a field trip to the annual fall show at the field house of Swarthmore College. The show made a fine spectacle in contrast with eight inches of wet snow that blanketed the area. Chrysanthemum arrangements, berried shrubs and Sasanqua camellias were featured at the show.

INGENUITY IN LANDSCAPING [Continued from page 12]

Other plants that can be used against this shaded fence are willow-leaved cotoneaster (*Cotoneaster salicifolia*) and its varieties; Japanese euonymus (*Euonymus japonicus*); various forms of holly, which might include Perny holly (*Ilex pernyi*), since it can be easily kept in bounds; yews (*taxus*), and blueberries (*vaccinium*), particularly the highbush (*Vaccinium corymbosum*). These are a few of the possibilities. Pyracantha would also grow here, but might become a problem, if the owner were hesitant about using his pruning shears. Of course, shears or a good sharp knife must be regularly and wisely used on all espaliers.

Regular pruning is necessary for any plants that are used under such shady conditions. It is natural for shrubs and trees to grow more spindly or make vegetative growth rather than flowers and dense growth when growing in the shade. The pruning shears correct this leggy appearance when in the right hands, but little can be done to make a plant develop flower buds. The client for whom the job is done should be informed of these conditions. It is advisable that the landscape man care for the garden rather than leave it to the

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homeowner, unless the owner is truly interested in gardening. If he is, then he is a good subject for careful and proper instruction.

Decorate for Christmas

The most joyous season of the year—Christmas—is almost with us. This little garden corner could be effectively lighted for the enjoyment of the owners and their friends or for those who may chance to enter and leave by the gate that is not quite visible at the left side of illustration B. American holly might have been incorporated in the scheme to provide a little extra cheer.

Ground covers are almost a must in this setting since they help separate the sitting area from the vertical walls. Evergreen types such as pachysandra and myrtle do a better job than deciduous material because of their year-round interest.

Additional shrubs that can be kept under control and used in and near this corner terrace are drooping leucothoe (*Leucothoe catesbaei*); coast leucothoe (*Leucothoe axillaris*); various forms of yews (*taxus*), including Hicks' yew; small Hooker sarco-cocca (*Sarcococca hookeriana humilis*); Japanese skimmia (*Skimmia japonica*), with its bright red berries (but remember that its sexes are separate as with the hollies); yellow-root (*Xanthorrhiza simplicissima*); staggerbush (*Lyonia mariana*); possibly the herbaceous hypericums, which include Aaron's-beard (*Hypericum calycinum*); the hollies, such as Pernetty holly (*Ilex pernyi*) and restrained forms of American and English hollies (*Ilex opaca* and *I. aquifolium*); Japanese euonymus (*Euonymus japonicus*), and carefully pruned plants of mountain laurel (*Kalmia latifolia*). These are a few of the potentials.

Many herbaceous plants can be included. The scarlet runner bean can be trained on strings or wires against the concrete wall. The list mounts as one thinks intently of the plant possibilities. The problem does not appear to be so impossible as it did. It is still no project for the person without imagination and a bit of common sense.

A happy Christmas to all the patient readers of Landscape Tips.

MALCOLM R. HARRISON is scheduled to become associate floriculture specialist for the agricultural extension service of Rutgers University on January 1, 1954. Mr. Harrison has been associate agricultural agent for Bergen county, New Jersey.

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CALIFORNIA Association of Nurserymen

ELMER J. MERZ, Executive Secretary

SOUTHERN CHAPTERS HOLD HOLIDAY CELEBRATIONS

An unusual feature of the November calendar for the Southern California chapters of the California Association of Nurserymen was the Thanksgiving dance held by the Centinela group to raise funds for its annual Christmas party this month.

While the other chapters returned to regular business meetings, the southwest Los Angeles group invited its members to a dance at Manhattan Beach on November 20. Donations at the doors, the sale of box lunches supplied by the members and the sale of soft drinks financed the chapter's Christmas event which this year was a dinner party for their children.

With the newly elected officers in charge, Los Angeles Sunset, San Diego, Inland Empire and Los Angeles chapter meetings were highlighted by brief talks on current business problems.

Matt J. Artner, representative of Swift & Co.'s plant food division, spoke to the Sunset chapter on November 20. With the aid of a color movie, he explained the scientific method of applying commercial food to plants. Alfred W. Roberts, of Robert's Sub-Tropical Gardens, Los Angeles, conducted a plant forum. Chapter President Wally Kinneer presided.

The next night, at the Inland Empire group meeting in Fontana, Opal S. Waters, advertising manager of the Los Angeles Times Home Magazine, spoke on the transition of the nursery industry as reflected in advertising during the past 20 years.

The future of the nursery business was discussed by Bill Adams, Mr. Waters' assistant on the magazine. After introductions by President Waldo Small, short reports were given by John Mason, immediate past president, Dave Stump, chapter member and state vice-president and Program Chairman Frank Pollock, Matlin's Nursery, Chino.

On November 19 San Diego's members were dinner guests of Mrs. Otilie Sessions, Sessions' Nursery and Garden Store, La Jolla, in the attractive patio of her nursery. Com-



HAPPY HOLIDAY THOUGHTS

Again it's time to wish

Merry Christmas to our friends.

Everywhere glad, good tidings

Ring out as the Old Year ends.

In every heart a purpose beats,

Candles throw their brightest flames.

Ageless truths the songs repeat

Noel, our Saviour's birth proclaims!

Around the tree the folks will stand,

Singing carols loud and clear.

Somewhere from far-off fairyland,

Old Santa's sleigh draws near.

Children's hearts are light,

Impatient tho they are,

And night is long, or so it seems

'Til dawn fades the last bright star,

Induced to sleep by dreams

Of trains and dolls to adore,

New toys and games galore!

Oh, keep us young in heart and mind,

Forever Christmas joy to find.

Now the season is approaching,

Universal in its scope,

Rich in heartfelt giving,

Sustained by faith and hope.

Every act of loving kindness

Returns in fullest measure.

Yuletide is the time to shower

Memories someone will ever treasure.

Everlasting peace—our fervent prayer,

Not only here, but everywhere!

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| 1-yr., 2 to 3 ft. | \$55.00 | No. 2, 12 to 18 ins. | \$35.00 |
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mittee heads and members were announced by President Paul Kleinsorge, Point Loma Nursery, San Diego. A general discussion was held within the group.

The past spring, members of the Los Angeles chapter were given a demonstration of florists' technique in gift plant wrapping by Ernie Dugas, of the Floral Market, and it met with such approval that a similar program featured the group's meeting on November 25. Ollie Weeks, vice-president and program chairman, of Weeks Wholesale Roses, Ontario, introduced Ray Mawson, of Buena Park Greenhouses, Buena Park, who explained and exhibited indoor planter arranging. Mr. Mawson displayed planters designed for customer appeal. Mints in holiday wrapping of gift plants were offered by Jay Wyne, of Rosedale's Nurseries, Monrovia.

Chapter President Ed. McNeill urged all members not enrolled in the group insurance plans to join before January 1, 1954, or face a year's moratorium plus a physical examination for the applicant; announced the group's annual Christmas party for December 9, and set the tentative dates for the chapter's camellia show for February 13 and 14, 1954.

Prior to the end of the year, members will have had an opportunity to attend two meetings related to the industry. On Friday, Dec. 4, during the annual meeting of the California State Chamber of Commerce at the Los Angeles Biltmore hotel, a special conference was held concerning roadside plantings. Members of the nursery industry were invited to attend and join in discussions with state and city officials.

The agricultural extension service of the University of California scheduled the Southern California Nurserymen's Institute at U.C.L.A. on Tuesday, December 29. A morning session of featured talks on various aspects of the industry and group-panel discussions in the afternoon hours were included. The speakers were primarily from the faculty of the University of California at Los Angeles. Ed. McNeill.

SAN JOAQUIN MEETS

A meeting of the San Joaquin chapter of the California Association of Nurserymen was held recently at the Magic Lantern restaurant, Madera.

President Bill Moffett appointed a 6-man board whose function it

will be to prepare news releases on gardening subjects. The appointees are Syd Whitehorn, Howard Riggs, Andy Caglia, George Goodhue, Gordon Thompson and Ivan Stribling.

Andy Caglia discussed his experience with self-service in his nursery at Fresno. He suggested that a prominent sign, bearing the name, description and cultural data of items be included in each variety block and that only a price tag be placed on each item. Carts for self-delivery have proved practical at Andy's Nursery. He also mentioned that the stressing of quality, not lowering of prices, was responsible for successful merchandising.

Members of the chapter agreed that signs alone will not sell, and sales personality still remains an important sales tool; however, some customers buy more nursery products when allowed to browse at their leisure.

George Goodhue suggested starting a local TV show, which could be broadcast from a Fresno station.

Virgil Cripe and Andy Caglia reported on the past meeting of the directors of the C. A. N. The statewide publicity program, the use tax, closing days for nurseries, new state officers and legislation were among the matters on which they reported.

Ivan L. Stribling, Sec.

ARBOR DAY PLANS BEGUN

Preliminary arrangements for an Arbor day program were made by President Joe Badger at the 115th meeting of the Redwood Empire chapter of the California Association of Nurserymen.

Harold Prickett, of Prickett's Valley View Nursery, Santa Rosa, reported on the labeling and naming of the trees and shrubs on the Santa Rosa Junior College campus. Prices on the metal markers had not been received, but it was reported that college officials were willing to cooperate in the making of markers if necessary.

It was announced that the hospital and medical plan and the life insurance plan would be closed to old members on January 1, 1954, and would be effective for one full year. New members of the chapter would be admitted the remainder of the month admitted to the chapter plus one month. It would then be closed to these persons also.

State President James Wilson outlined the program for the coming year. Executive Secretary Elmer Merz reviewed legislative activities for the past year.

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\$35.00 per 1000; \$5.00 per 100.

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\$50.00 per 1000; \$7.00 per 100.

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3-yr. stock (twice transplanted)
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PARROT TULIPS, 11 to 12 cm., 5c each. Fantasy, rose shadings, green markings; Sunshine, brilliant yellow; Orange Favorite, reddish orange yellow; Blue Parrot, blue shading to lavender.

HYACINTHS, 15 to 16 cm., 10c each. Gertrude, pink; L'Innocence, white; City of Haarlem, yellow; Bismarck, blue; King of Blues, dark blue; LaVictoire, red.

CROCUS, 7 to 8 cm., 4c each. King of Blues, blue; Golden Yellow, yellow; Striped Beauty, white and blue; King of Whites, white.

MUSCARI, 7 to 8 cm., 2c each. Grape Hyacinth.

DUTCH IRIS, 8 to 9 cm., 5c each. Golden Harvest, yellow; White Excelsior, white; Wedgwood, blue.

DAFFODIL, 6c each. King Alfred, rounds.

SCILLA, 7 to 8 cm., \$2.50 per 100, Campanula, mixed colors.

SNOWDROPS, \$4.00 per 100.

AMERICAN GROWN BULBS
MADONNA LILY, 20 cm., and up, \$3.50 per 10. Blooms for Decoration Day.

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1 1/4 to 1 1/2 ins., \$ 5.50 per 100; \$ 45.00 per 1000
1 1/2 to 2 ins., 8.50 per 100; 75.00 per 1000
2 ins. up, 12.50 per 100; 115.00 per 1000
Double-flowering Fimbriatus Carnation-type, 6 Colors.

1 1/4 to 1 1/2 ins., 7.00 per 100; 60.00 per 1000
1 1/2 to 2 ins., 11.50 per 100; 100.00 per 1000
2 ins. up, 15.00 per 100; 140.00 per 1000

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Jumbo, 2 1/4 to 3 1/2 ins., 25.00 per 100
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18 to 24-in. branched plants, B.R., \$1.00 ea.
18 to 24-in. bed liners, B.R., 50c ea.
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A sensational new English import that is a vigorous, hardy grower. Prolific bloomer with large, asterlike flowers about 4 ins. across. The bush attains a height of about 24 inches. Originator's stock, Plant patent 465, \$30.00 per 100, \$250.00 per 1000.

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The world's finest colored Shasta Daisy. Hybridized by the Earl of Darnley. Photo on request. Imported originator's stock, \$2.50 per plant, \$21.50 per dozen, \$175.00 per 100.

IMPROVED ESTHER READ
A taller plant with larger flowers on longer, stouter stems. Blooms continuously. Imported original stock, \$7.00 per doz., \$50.00 per hundred.

AGLAYA
Beautiful, frilly flowers, \$12.50 per 100, \$100.00 per 1000.

SPECIAL SALE
MARCONI, \$6.00 per hundred, \$40.00 per 1000.

MAJESTIC, \$7.00 per hundred, \$65.00 per 1000.

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ROOTED CUTTINGS FROM GREENHOUSE

Per 1000

Abelia

Biota Conspicua, 2 to 4 ins., 70.00

Biota Excelsa, 2 to 4 ins., 70.00

Biota Chinese Globe, 2 to 4 ins., 70.00

Euonymus Patens, 35.00

Euonymus Microphyllus (Boxleaf), 60.00

Euonymus, 70.00

Ilex Crenata Convexa, 70.00

Ilex Fosters Hybrid (New), 150.00

Juniperus Pfitzeriana, 2 to 4 ins., 60.00

Photinia Serrulata, 2-in. pot., 135.00

Buxus Sempervirens, very hardy, 100.00

Buxus Sempervirens, very hardy, 80.00

Buxus Sempervirens, very hardy, 80.00

Buxus Sempervirens, very hardy, 90.00

outside bed, 6 to 8 ins., 80.00

outside bed, 6 to 8 ins., 80.00

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outside bed, 6 to 8 ins., 80.00

outside bed, 6 to 8 ins., 80.00

outside bed, 6 to 8 ins., 80.00

EVERGREEN LINERS AND CUTTINGS

POT-GROWN AND TRANSPLANTS Each Per 100 Per 1000

Arborvitae, American Dark Green, 1-yr. pots, \$0.20 \$0.18

Arborvitae, Globe, 1-yr. pots, .20 .18

Arborvitae, Pyramidal, 1-yr. pots, .20 .18

Arborvitae, Pyramidal, 2-yr. pots, .26 .24

Euonymus alatus compactus, 1-yr. pot, .18 .16

Juniper, Blue Hetz, 1-yr. pots, .22 .20

Juniper, Blue Hetz, 2-yr. pots, .27 .25

Juniper, Gold Pfitzer, 1-yr. pots, .24 .22

Juniperus chinensis pfitzeriana, 1-yr. pots, .24 .22

Juniperus pfitzeriana compacta, 1-yr. pots, .24 .22

Juniperus virginiana burkii, 1-yr. pots, .37 .35

Taxus hicksii, 2-yr. pots, .24 .22

HEAVY-ROOTED CUTTINGS

From flats, rooted outside in lath house.

Delivery now or spring, 1954.

Each—Per 100 Per 1000

Arborvitae, American

Dark Green, \$0.10 \$0.09

Arborvitae, elegantissima, .10 .09

Arborvitae, Pyramidal, .10 .09

Euonymus alatus compactus, .09 .08

Euonymus erectus, .07 .06

Euonymus patens, .06 .05

Euonymus vegetus, .09 .08

Juniperus hetzi glauca, .11 .10

Juniper, Swedish, .10 .09

Taxus cuspidata, .11 .10

Taxus hatfieldi, .11 .10

Taxus intermedia, .11 .10

Taxus media hicksii, .11 .10

2 per cent discount and free packing for cash with order.

250 plants at 1000 rate.

MIAMI NURSERY CO.

Tipp City, O.

EVERGREEN LINERS

Each

BERCKMANS BIOTA A. N. Per 100 Per 1000

2-in. pot, 2-yr., \$0.22 \$0.17

WOODWARD GLOBE ARBORVITAE

2 1/2-in. pot, 2-yr., .25 .20

2 1/2-in. pot, 1-yr., .21 1/2 .16 1/2

2 1/2-in. pot, 2-yr., .21 1/2 .16 1/2

2-yr., field-grown, .35 .30

TAXUS CUSPIDATA

2 1/2-in. pot, 1-yr., .20 .15

PFITZER JUNIPER

2 1/2-in. pot, 1-yr., .25 .20

2 1/2-in. pot, 1-yr., .20 .15

2 1/2-in. field-grown, .45 .40

PYRAMID ARBORVITAE

2 1/2-in. pot, 1-yr., .21 1/2 .16 1/2

2-in. pot, 2-yr., .21 1/2 .16 1/2

2-yr., field-grown, .35 .30

BLUE HETZ JUNIPER

2 1/2-in. pot, 1-yr., .20 .15

BURK JUNIPER

2 1/2-in. pot, 1-yr., .27 1/2 .22 1/2

TAXUS MEDIA

2 1/2-in. pot, 2-yr., .25 .20

2 1/2-in. pot, 1-yr., .29 .15

TAXUS HICKSII

2 1/2-in. pot, 2-yr., .25 .20

2 1/2-in. pot, 1-yr., .20 .15

2 1/2-in. pot, 2-yr., .22 .17

4-yr., field-grown, .45 .40

LANDSCAPE-SIZE EVERGREENS

Each

Berckmans Biota A. N., \$1.75

Pfitzer Juniper, 3.00

Blue Hetz Juniper, 3.00

TERMS: Cash with order—Free packing.

300 plants of one variety at 1000 rate.

Not less than 50 of a variety.

Order for spring held for one-quarter deposit.

VOGE NURSERY

New Lebanon, O.

CHOICE EVERGREENS

Per 1000

Red Cedars, 5 to 10 ins., \$ 20.00

grafters, 40.00

10 to 15 ins., 35.00

15 to 24 ins., 75.00

24 to 36 ins., 125.00

36 to 48 ins., 175.00

Please write for very low prices on our many evergreen varieties, B&B.

ROLLER'S NURSERY

Rogers, Ark.

GRAFTING UNDERSTOCKS

Per 1000

Juniperus Virginiana, 2-yr., S., 1/4 to 1/2 in. cal., \$95.00

Chinese Arborvitae, 2-yr., S., 1/4 to 1/2 in. cal., 45.00

Bare-root, from undercut seedbeds, puddled, moist-packed.

LUKE NURSERY

Pauls Valley, Okla.

ROOTED CUTTINGS

| | Per 100 | Per 1000 |
|-------------------------------|---------|----------|
| Arborvitae, Globe | \$0.09 | \$0.08 |
| Arborvitae, Green Nigra | .08 | .07 |
| Arborvitae, Pyramidal | .09 | .08 |
| 6 to 10 ins. | .09 | .08 |
| Juniper, Andorra, 4 to 8 ins. | .13 | .12 |
| Juniper, Irish, 4 to 8 ins. | .11 | .10 |
| Juniper, Pfitzer, 4 to 8 ins. | .13 | .12 |
| Taxus Brownii | .09 | .08 |
| Taxus Capitata (Leaders) | .16 | .14 |
| 6 to 10 ins. | .08 | .07 |
| Taxus Cupidata, 5 to 8 ins. | .09 | .08 |
| Taxus Hicksi, 6 to 10 ins. | .09 | .08 |
| Taxus Intermedia, 5 to 8 ins. | .09 | .08 |

1-YR. BEDS

| | Per 100 | Per 1000 |
|------------------------------|---------|----------|
| Arborvitae, Green Nigra | .17 | .15 |
| 6 to 10 ins. | .15 | .14 |
| Taxus Cupidata, 6 to 10 ins. | .15 | .14 |

PLANT BANDS

| | Per 100 | Per 1000 |
|--------------------------|---------|----------|
| Arborvitae, Pyramidal | .18 | .16 |
| Juniper, Pfitzer | .22 | .20 |
| Taxus Capitata (Leaders) | .24 | .22 |
| Taxus Cupidata | .16 | .15 |
| Taxus Hicksi | .18 | .16 |

Grafted Spruce, 2 1/2-in. pot, \$1.25 ea.
Koster and Moerheim Blues
50 at 100 rate, 300 at 1000 rate. Packing
free. We will quote prices on quantities of
5000 or more.

DRAKE'S NURSERIES

G-4342 Branch Road Flint 6, Mich.

EVERGREENS

| | Per 100 | Per 1000 |
|--------------------------------------|---------|----------|
| Scotch Pine, 2-0, 3 to 6 ins. | \$3.50 | \$18.00 |
| Scotch Pine, 2-0, 3 to 8 ins. | 4.00 | 22.50 |
| Riga Scotch Pine, 2-0, 3 to 8 ins. | 3.50 | 22.50 |
| Austrian Pine, 2-0, 3 to 5 ins. | 3.50 | 20.00 |
| Mugho Pine, 2-0, 2 to 4 ins. | 3.50 | 20.00 |
| 3-0, 4 to 6 ins. | 4.50 | 30.00 |
| 3-1, 4 to 6 ins. | 7.00 | 50.00 |
| Colorado Blue Spruce, 2-0, | | |
| 3 to 4 ins. | 3.50 | 20.00 |
| 3-0, 3 to 6 ins. | 5.00 | 35.00 |
| 2-1, 2 to 4 ins. | 5.00 | 35.00 |
| 2-2, 4 to 6 ins. | 6.50 | 45.00 |
| Norway Spruce, 2-0, 2 to 6 ins. | 3.50 | 20.00 |
| 2-2, 4 to 8 ins. | 6.00 | 45.00 |
| 2-3, 3 to 10 ins. | 9.00 | 75.00 |
| White Spruce, 3-0, 2 to 6 ins. | 4.50 | 35.00 |
| Black Hills Spruce, 3-0, 2 to 4 ins. | 3.50 | 20.00 |
| Black Hills Spruce, 2-2, 4 to 8 ins. | 6.00 | 45.00 |
| Black Spruce, 3-0, 6 to 8 ins. | 5.00 | 35.00 |
| American Arborvitae, 2-1, | | |
| 3 to 4 ins. | 5.00 | 35.00 |

Terms: 2% cash with order. Complete list
of lining-out stock and potted evergreens.
Write.

JOHN G. ZELENKA

R. 2 Grand Haven, Mich.

EVERGREENS

| | Per 100 | Per 1000 |
|--------------------------|---------|----------|
| Riga Scotch Pine, 2-0, | | |
| 3 to 8 ins. | \$4.50 | \$21.00 |
| Scotch Pine, Green | | |
| Strain, 2-0, 3 to 6 ins. | 4.50 | 20.00 |
| Scotch Pine, Green | | |
| Strain, 2-0, 3 1/2 to | | |
| 8 ins. | 5.00 | 22.00 |
| Scotch Pine, T. 2-1, | | |
| 3 to 12 ins. | 15.00 | 100.00 |
| Scotch Pine, T. 2-2, | | |
| 3 to 6 ins. | 12.00 | 50.00 |
| Austrian Pine, 2-0, | | |
| 3 to 7 ins. | 4.50 | 22.50 |
| White Pine, T. 2-2, | | |
| 12 to 18 ins. | 15.00 | 100.00 |
| Red Pine, T. 2-2, | | |
| 12 to 16 ins. | 20.00 | 100.00 |
| American Arborvitae, | | |
| T. 18 to 24 ins. | 30.00 | 100.00 |

All packing and handling charges are
included in quotation. Orders will be shipped
postpaid, via parcel post, unless other ship-
ment is desired.

VAN'S PINES

Box 12 West Olive, Mich.

HEAVY FIELD-GROWN LINERS

| | Per 100 | Per 1000 |
|-----------------------------|---------|----------|
| 500 Thuja Elegantiissima, | | |
| 10 to 12 ins. XX | \$0.45 | |
| 200 Juniper, Hill's Golden, | | |
| 12 to 15 ins. XX | .60 | |
| 1000 Juniperus Pfitzeriana, | | |
| 9 to 13 ins. XX | .85 | |
| 1000 Juniperus Pfitzeriana, | | |
| 12 to 15 ins. XX | .60 | |

These are heavy rooted and far above
average. Fall or spring shipment.

DAMASCUS NURSERIES

Box 216 Damascus, O.

ATTENTION LANDSCAPE MEN

Dig Your Own Trees and Save
Due to labor shortage we are offering
beautiful, 3-times-sheared Pfitzer Juniper,
standing 16 to 22 ins. high, as follows:
24 to 36-in. spread, \$2.50.
30 to 36-in. spread, 2.75.
3 to 4-ft. spread, 2.00.

E and S NURSERY

RR2, Caledonia, Miss.

Phone: Columbus, Miss. 5342

FIELD-GROWN

AZALEAS AND CAMELIAS
ALL SIZES AND VARIETIES
SPECIAL PRICE ON LARGE LOTS
WRITE FOR LIST
LONGWOOD NURSERIES
P. O. BOX 407
MOBILE 3, ALABAMA

EVERGREENS

UPRIGHT YEW (Taxus Capitata). These are
fine, well-filled plants. TTT.

10 to 24 25 to 49 50 to 100

Each Each Each

375 3 to 3 1/2 ft. \$ 2.25 \$ 2.50 \$ 3.00

200 3 1/2 to 4 ft. 11.50 10.50 10.00

CANADIAN HEMLOCK, TTT. Bushy plants
with fibrous roots.

125 3 to 3 1/2 ft. 5.00 4.75 4.50

125 3 1/2 to 4 ft. 6.00 5.75 5.50

125 4 to 4 1/2 ft. 7.00 6.75 6.50

90 4 1/2 to 5 ft. 8.00 7.75 7.50

JUNIPERUS COLUMNARIS, JUNIPERUS

KETELEERI, JUNIPERUS MAScula, TTT.

Quality sheared plants.

3 to 3 1/2 ft. 4.50 4.25 4.00

3 1/2 to 4 ft. 5.00 4.75 4.50

4 to 4 1/2 ft. 6.00 5.75 5.50

4 1/2 to 5 ft. 7.00 6.75 6.50

No boxing. Prices F.O.B. Terre Haute.

Terms: Net cash unless satisfactory refer-
ences are furnished in advance.

You are invited to inspect these.

HAAS HOME NURSERIES

29th and Poplar Sts.

Terre Haute, Ind.

JUNIPER GRAFTS

Canarti, Glauca, Burki, Keteleeri, Chinese
Mascula, Hetzi and Pfitzer, all on Virginiana
understock. Price 40c each. Terms: One-
fourth cash with order and balance before
shipping date, plus boxing charges at cost.

All cash with order earns free boxing. Grafts
will be in short supply again this year. Be
wise and order now. Remember, when better
grafts are made, Crume will make them.

T. C. CRUME

NURSERY AND LANDSCAPING CO.

Hy. No. 42, Phone: Florence 233, Florence, Ky.

FINE GRAFTING STOCKS

BIOTA ORIENTALIS—2-yr., bed-grown in
soil prepared to produce fibrous root systems.
Healthy, vigorous plants are essential to suc-
cessful grafting. \$45.00 per 1000. Lighter
grades, 2-yr., 10 to 14 ins., \$30.00 per 1000;
1-yr., 3 to 5 ins., \$15.00 per 1000.

These are packed to reach you in first-class
condition.

SOUTHERN NURSERY

Rt. 7, Box 254A Oklahoma City, Okla.

AMERICAN BOXWOOD

| | Per 100 |
|---------------------------------|----------|
| Buxus Sempervirens, field-grown | |
| 10 to 12 ins. | \$ 50.00 |
| 12 to 15 ins. | 75.00 |
| 15 to 18 ins. | 100.00 |

PINKSTON NURSERIES

Parrott, Ga.

DWARF BOXWOOD

Border your flower beds and walks with
our Old English Buxus Suffruticosa, several
years old. Field-grown, compact, good color,
1 to 6 ins., \$25.00 per 100; 6 to 8 ins., \$50.00
per 100.

PINKSTON NURSERIES

Parrott, Ga.

JUNIPER CUTTINGS

Unrooted cuttings of Pfitzer Juniper, 6 to
8 ins. long, not trimmed, \$10.00 per 1000.
Cash. Express or motor freight.

KRONE'S FLOWER SHOP

4221 Grand Ave. Fort Smith, Ark.

GROUND COVERS

VINCA MINOR, MYRTLE PERIWINKLE
Fresh-dug, individually made up, 15 to 20-
cane clumps, \$50.00 per 1000. 30-cane clumps
\$90.00 per 1000.

Pachysandra, strong 1-yr., rooted, \$55.00
per 1000.

Hill's Honeysuckle, branched, \$45.00 per
1000.

H. C. WAUGH

R. D. No. 2 Cheshire, O.

PACHYSANDRA TERMINALIS, strong
rooted cuttings, \$7.75 per 100, \$35.00 per 1000.
Beetle Zone only. Over 5000, \$32.50 per 1000.
DUNWOODIE NURSERIES, 6 Smart Ave.,
Yonkers, N. Y. Yonkers 5-1473

PACHYSANDRA TERMINALIS

Strong, 1-yr., field-grown, \$65.00 per 1000.

HILLCREST GREENHOUSES, Franklin, Pa.

HARDY PLANTS

BLEEDING HEARTS

| | Per 100 |
|-------------------------------------|---------|
| Dicentra Spectabilis, 3 to 5 | \$25.00 |
| Dicentra Spectabilis, 5 to 8 and up | 40.00 |
| Dicentra Eximia, 3 to 5 | 15.00 |
| Dicentra Eximia, 5 to 8 and up | 20.00 |

J. HENDRIKS, GROWER

PORTAGE, MICH.

LYTHRUM MORDENS PINK

1-yr., field-grown \$16.00 Per 1000

Liners 6.00 59.00

PLANE VIEW NURSERY

Newport, R. I.

FEVERFEW BALL'S DOUBLE WHITE

Strong transplants, \$2.50 per 100

F. C. KOHLER Mikado, Mich.

HELLEBORUS NIGER (Christmas Rose)

\$65.00 per 100

J. HENDRIKS, Grower, Portage, Mich.

PERENNIALS

Strong blooming-size perennials from field
rows, 1-yr. old.

PACIFIC HYBRID DELPHINIUM, Blue Jay
Galahad, King Arthur, Camellard, Guine-
vere, Summer Skies, Black Knight, \$12.00
per 100.

SCOTT ELLIOTT COLUMBINE, mixed, \$4.00
per 100.

RUSSELL LUPINE, \$6.00 per 100.

PYRETHRUM DOUBLE MIXED, \$5.00 per
100.

CARNATIONS, mixed, \$5.00 per 100.

CANTERBURY BELLS, mixed double and
singles, \$4.00 per 100.

HENS AND CHICKS, mixed, \$4.00 per 100.

BLEEDING HEART DICENTRA SPECTA-
BILIS, 3 to 5-yr., \$25.00 per 100. Cash please.

GARDEN SQUARE

415 North 22nd St. Lewiston, Ida.

DELPHINIUM PACIFIC HYBRIDS

Mixed colors, from 3-in. pots, 5c.

SHASTA DAISIES

Majestic, best single, and Aglaya, best
double, field divisions, 15c.

RUSSELL BREECE Delaware, O.

America's Best Source
for Hardy Plants is

THE WAYSIDE GARDENS

Monitor, Ohio

Write for Trade List.

PERENNIALS

New and standard kinds.

New wholesale list now ready.

CARROLL GARDENS

Box 15 Westminister, Md.

Panicles, perennials and rock plants in
wide variety. Send for catalog.

PITZONKA'S PANTRY FARM & NURSERY

Bristol, Pa.

HARDWOOD CUTTINGS

HARDWOOD CUTTINGS

We have very large cutting blocks listing
more than 50 varieties of shrubs and trees.
On account of the time necessary to process
them it is urgently requested that we have
your order early. We can furnish a certain
amount for fall planting if we have your
order soon.

Per 1000

Aronia melanocarpa \$ 4.00

Cornus amomum 4.00

Cornus lutea (yellow bark) 6.00

Cornus paniculata 4.00

Cornus sibirica 5.00

Diervilla trifida 4.00

Elder, canadensis 5.00

Elder, Cutleaf 4.00

Elder, Golden 6.00

Elder, red-berried 4.00

Forsythia intermedia 4.00

Forsythia ovata 4.00

Forsythia pruinosa 4.00

Forsythia spectabilis 4.00

Honeysuckle, bella abida 4.00

Honeysuckle, bella rosea 4.00

Honeysuckle, korolkowi 5.00

Honeysuckle, morrowi 4.00

Honeysuckle, tat. rosea 5.00

Honeysuckle, zabeli 5.00

Hydrangea A.G. 5.00

Hydrangea P.G. 5.00

Juniper, Andorra 15.00

Juniper Pfitzer 15.00

Juniper, Savin 15.00

Lilac, rothomagensis 5.00

Philadelphus Amalthee 4.00

Philadelphus Bouquet Blanc 4.00

Philadelphus grandiflorus 4.00

Philadelphus lemoinei 5.00

Philadelphus Mt. Blanc 4.00

Physocarpus opulifolius aureus 4.00

Physocarpus opulifolius nanus 5.00

Poplar, Lombardy 4.00

Privet, Amur 4.00

Privet, Itoya 4.00

Snowberry, white 4.00

Sorbaria sorbifolia 4.00

Spiraea billardi 4.00

Spiraea froebelii 4.00

Spiraea thunbergii 4.00

Spiraea trichocarpa 4.00

Spiraea vanhouttei 4.00

Taxus canadensis 15.00

Taxus cupidata 15.00

Thuja globosa 15.00

Thuja pyramidalis 15.00

Thuja, Siber

IVIES

BALTIC IVY, Rooted cuttings, 5c; 2-in. pots, 10c; 2-yr., 2½-in. pots, 15c.
EUONYMUS RADICANS: Erecta, Patena, Newport, Carrierel and Coloratus. Rooted cuttings, 5c; 2-in. pots, 10c; 2-yr., field, XX, 20c.

STRATFORD GARDENS Delaware, O.

Hardy **ENGLISH IVY** from stock surviving in our nursery at below zero temperatures. Strong, R.C. \$30.00 per 1000. Cash.

BABCOCK GARDENS
 R. 3 Jamestown, N. Y.

LINING-OUT STOCK

SHRUB AND EVERGREEN LINERS
 In plant bands, except as noted, not necessary to unpack banded plants. Will continue to grow in shipping crates for months.

EVERGREENS Each

Pfitzer Juniper (*Juniperus chinensis pfitzeriana*),

6 to 8 ins. \$0.14½

8 to 10 ins.20

10 to 12 ins.26

field-grown, B.R., 11 to 14 ins.55

field-grown, B.R., T., 8 to 11 ins.40

Andorra Juniper (*Juniperus*

horizontalis plumosa),

8 to 10 ins.14½

10 to 12 ins.20

Compact Pfitzer Juniper (*Juniperus chinensis pfitzeriana compacta*),

6 to 8 ins.16

8 to 10 ins.22

Dwarf Pfitzer Juniper (*Juniperus chinensis pfitzeriana*),

6 to 8 ins.16

8 to 10 ins.22

Savin Juniper (*Juniperus sabina*),

8 to 10 ins.20

Von Ehrhorn Juniper (*Juniperus sabina vonehrhorn*), 8 to 10 ins.20

Narrow Irish Juniper (*Juniperus compacta hibernica fastigiata*),

8 to 12 ins.20

Spreading Japanese Yew (*Taxus cuspidata*),

6 to 8 ins., 2-yr.20

Upright Japanese Yew (*Taxus cuspidata capitata*),

from cuttings, 6 to 8 ins., 2-yr.20

Brown's Yew (*Taxus media browni*),

6 to 8 ins., 2-yr.26

Euonymus patens (*Kiautschovicus*),

Small leaf, northern strain,12½

Middle leaf, dormant, B.R.,

6 to 10 ins.10

Large leaf, dormant, B.R.,

6 to 10 ins.08

Euonymus coloratus, B.R.,

6 to 10 ins., 1-yr.05

SHRUBS, greenhouse-grown bands.

Cornus elegantissima (Silver Blotch

Dogwood)16½

Forsythia Lynwood Gold, early

cuttings25

Forsythia Lynwood Gold, later

cuttings20

Spiraea coccinea japonica, improved A.W.,

Early cuttings20

Later cuttings14½

Pyracantha islandia14½

Spiraea callosa alba, Like A.W. but

dwarf white16½

Viburnum opulus nanum, dwarf

hedge snowball14½

Weigela vanheckeri, red, branching,

everblooming16½

Lythrum, Morden's Pink,12½

Verbena, Hardy, Lavender Pink.

BARE-ROOT DORMANT SHRUBS,

no less than 50 of any item.

Salix purpurea nana, dwarf, blueleaf

arctic willow, 8 to 10 ins.06

Forsythia Spring Glory, 4 to 6 ins.07

Calliandra dichotoma (Chinese Beauty

Berry), 4 to 6 ins.08

Ligustrum sinense (Wayside Gardens

variety)08

Regel's Privet, 6 to 10 ins.05

Golden Vicary variegated privet,

8 to 10 ins.05

Weigela, dwarf variegated, 4 to 6 ins.08

Weigela Rosa, 4 to 6 ins.08

Weigela Rosa, 4 to 6 ins.06

All prices are at 1000 rate, 300 or more

total order. If total order is less than 300,

prices are 2c more on each plant.

Book your order for spring.

McNINCH GREENHOUSES

St. Joseph, Mo.

75,000 DOGWOOD

Cornus Florida, white-flowering, nursery-

grown seedlings.

4 to 6 ins. \$ 5.00 \$40.00

6 to 12 ins. 6.00 50.00

12 to 18 ins. 10.00 90.00

18 to 24 ins. 15.00

BROOKFIELD GARDENS

U. S. 46 Delaware, N. J.

PYRACANTHA COCCINEA LALANDI

Hardy stock from selected fruiting plants.

2½-in. pots, T., 8 to 10 ins., bushy, \$22.50

per 100; 3-in. pots, T., 8 to 10 ins., bushy, \$22.50

per 100.

Well-rooted. Immediate shipment. Cash.

BABCOCK GARDENS

Rt. 3, Jamestown, N. Y.

FIELD-GROWN LINERS

Per 100 Per 1000

Ashford Juniper, 1-yr.,

6 to 12 ins. \$0.12½ \$0.10

Ashford Juniper, 2-yr.,

6 to 18 ins.17½ .15

Fastigiate Juniper, 1-yr.,

6 to 12 ins.12½ .10

Fastigiate Juniper, 2-yr.,

6 to 18 ins.17½ .15

Irish Juniper, 1-yr.,

6 to 12 ins.12½ .10

Irish Juniper, 2-yr.,

6 to 18 ins.17½ .15

Irish Juniper, 3-yr.,

12 to 30 ins.20 .17½

Spiry Greek Juniper, 1-yr.,

6 to 12 ins.12½ .10

Compact Pfitzer Juniper, 1-yr.,

6 to 12 ins.17½ .15

Savin Juniper, 1-yr.,

6 to 15 ins.12½ .10

Abelia Grandiflora, 1-yr.,

6 to 8 ins.12½ .10

White Dogwood, 18 to 24 ins.50 .40

White Dogwood, 2 to 3 ft.60 .50

Cornus Florida Seedlings, 4 to 6 ins., \$15.00

per 1000; 6 to 12 ins., \$20.00 per 1000.

Double-flowering Peach, 2 to 3 ft., \$0.20;

3 to 4 ft., \$0.30; 4 to 5 ft., \$0.40.

Colors: Red, White, Pink.

We offer you well-rooted, well-graded,

well-packed stock. Fifty or more plants at

one hundred rate; three hundred or more at

one thousand rate. No charge for packing

when cash accompanies order. All orders

will be appreciated and given prompt atten-

tion.

NAUGHER NURSERY

Chase, Ala.

LINING-OUT STOCK

Per 100

Hex Cornuta Burfordi, 6 to 8 ins. \$10.00

8 to 12 ins. 12.50

12 to 18 ins. 15.00

Gardenia Fortunei, 6 to 8 ins. 10.00

Osmanthus Fragrans (Sweet Olive),

6 to 8 ins. 10.00

8 to 12 ins. 12.50

12 to 18 ins. 15.00

Magnolia Nigra, 8 to 12 ins. 25.00

Magnolia Nigra, 12 to 18 ins. 30.00

Hex Rotundifolia, 6 to 8 ins. 10.00

8 to 12 ins. 12.00

12 to 18 ins. 15.00

FLOWERWOOD NURSERY, INC.

Rt. 1, Box 130 Mobile, Ala.

LINING-OUT STOCK

Strong bed-grown plants, 1, 2 and 3-

year-old liners of *Chamaecyparis*, *Hex*,

Juniperus, *Ligustrum*, *Buxus*, *Taxus*, *Thuja*,

Taxus, *Viburnum* and others. We are also

growing about 100 acres of finished landscape

materials. Write for our wholesale list of

liners and finished material.

DEL-MAR-VA NURSERIES

Lincoln, Del.

ORNAMENTAL ARISTOCRATS

Choice varieties not found in many cata-

logues as well as many of the old favorites.

Established in 1921 and still growing strong.

Fall and spring catalog sent on request to

members of the trade only. Specials on

Althaea, *Dogwood*, *Japonica*, *Holly*, *Taxus*

and *Wisteria*.

JOHN VERMEULEN & SON, INC.

Neshanic Station, N. J.

TURN STOCK INTO DOLLARS

by Listing It in the Classified Ads

of the American Nurseryman.

ORCHIDS

ORCHIDS

Dendrobium Formosum Giganteum, white

flowers, 4 to 5 ins. across, winter blooming,

3 to 4-in. pot, \$2.50 to \$4.40 ea., larger

selected plants, \$7.50 ea.

Dendrobium Phalaenopsis, deep rose flow-

ers, fall bloomer, 2½-in. pot, blooming size,

\$1.50 ea., 5 for \$6.50.

Vanilla planifolia (Commercial Vanilla

vine), Cuttings, 50 ft., \$15.00; 100 ft., \$25.00.

Hybrid seedlings in 1½-in. pot, 75c to 90c

ea. Complete price list on plants, supplies

and orchid books on request.

FINCK FLORAL CO.

Rt. 12, Box 287 Kirkwood 22, Mo.

PEONIES

GRAFTED TREE PEONIES

LAKE SAMMAMISH EVERGREEN

NURSERY

Rt. 1, Box 79 East Stanwood, Wash.

WATCH YOUR RESULTS FROM

American Nurseryman Classified Ads.

RHODODENDRONS

RHODODENDRON FOR LANDSCAPING

Large selection of grafted named varieties.

Excellent stock for list.

STATE FLOWER NURSERY

Rt. 2, Box 5, Bothell, Wash.

HYBRID RHODODENDRONS

Best Named Varieties

Sizes, 12 to 36 ins.

RICKERT NURSERIES, Morrisville, Pa.

PHLOX

PHLOXES.

We offer to the floral and nursery trade, an

excellent assortment of hardy Phlox plants.

Our plants are 1-year, field-grown, with good

roots. The XX grade are the heavy plants

and are tied 10 in a bundle, while the No. 2

or ordinary grade, are tied 25 plants in a

bundle. Please order accordingly. We can ship

any time.

XX GRADE Per 100

Baron von Heeckeren, delicate salmon-

pink \$15.00

B. Comte, rich, satiny wine-red; dwarf, 15.00

Border Queen, watermelon-pink, 15.00

Beacon, cherry-red, wine eye, 15.00

Bridesmaid, white with pink eye, 15.00

Colonial, light blue; strong grower, 12.00

Dr. Chas. Mayo, white with crimson eye 12.00

Eclairer, rosy carmine with light halo 12.00

Enchantress, bright salmon-pink, 18.00

Etna, deep scarlet (No. 2 only), 15.00

E. I. Farrington, salmon-pink, rosy

blush, 15.00

Flancee, pure waxy white, 12.00

Flash, showy bright red (No. 2 only), 15.00

H. O. Wijers, white with red star, 12.00

Hauptmann Kochi, dark blood-red, 18.00

July Lights</

ROSEBUSHES

We Sell Nothing but
ROSEBUSHES

The Very EXCELLENT Service
is FREE

NEW LONDON ROSES

Overton, Tex.

ARP-GROWN ROSEBUSHES with life insurance. Bare roots for landscape, beautifully packaged for display, or direct-to-garden mail order. Service to nurseries for 30 years. Write for prices list on business letterhead please.

ARP NURSERY CO., Box 867-A, Tyler, Tex.

ROSEBUSHES

2-yr. plants, grown right, graded right, packed right. Very complete assortment of varieties. Write for prices and book your requirements now.

ROSEBUSHES

D. L. Thompson, owner Tyler, Tex.

ROSEBUSHES

Price and quality make this your best rose buy. A list is reserved for you—send for it today.

MARTIN'S ROSE NURSERY

P.O. Box 155 Phone 713 Arp, Tex.

SEEDLINGS

RED MAPLES

Japanese Maple Seedlings

100 True Red

All Red Branched Transplants

| | Each | 100 rate | 1000 rate |
|------------------------------|--------|----------|-----------|
| 2-yr., 6 to 8 ins. XX..... | \$0.40 | \$0.37 | |
| 2-yr., 8 to 10 ins. XX..... | .45 | .42 | |
| 2-yr., 10 to 12 ins. XX..... | .55 | .50 | |

A 20 per cent deposit will reserve your order.

Bare root packed in sphagnum.

Specializing in Maple seedlings.

Shipments late October on.

ELWOOD HUBBS

Rt. 130 Riverton, N. J.

NANDINA DOMESTICA SEEDLINGS

6 to 8 ins. \$3.00 per 100, \$70.00 per 1000.

PINKSTON NURSERIES

Parrott, Ga.

Surplus Stock

can be easily and quickly turned into

Cash

by listing it in the

American Nurseryman Classified Ads.

SEEDS

| SEEDS | Per lb. | Per lb. |
|---|---------|---------|
| Apple, Common, for stock..... | \$0.50 | \$ 1.25 |
| Apricot, anise variety..... | | 1.00 |
| Broom (Cytisus scoparius)..... | .55 | 1.50 |
| Buckthorn, Dahurian (broad-leaved)..... | 1.10 | 3.00 |
| Caragana arborea..... | 1.10 | 3.00 |
| Cherry, Full (Prunus incisa)..... | 1.90 | 5.50 |
| Cherry, Manchou (Prunus tomentosa)..... | 1.00 | 2.75 |
| Cherry, Sargent (Prunus sargentii)..... | 1.25 | 3.50 |
| Cotoneaster divaricata..... | 2.75 | 7.50 |
| Cypress, Arizona (seed from pyramid specimens)..... | 1.70 | 4.75 |
| Dogwood, Flowering (Cornus florida), Middle Atlantic States, clean..... | .95 | 2.50 |
| Dogwood, Flowering, New England, D.B..... | .95 | 2.50 |
| Elaeagnus angustifolia, clean..... | .50 | 1.10 |
| Juniperus virginiana..... | 1.25 | 3.75 |
| Lilac, Common (Syringa vulgaris)..... | 1.25 | 3.50 |
| Maple, Japanese (Acer palmatum), small-seeded..... | 1.40 | 4.00 |
| Pear, French, for stock..... | 1.95 | 5.50 |
| Rosa multiflora, thornless..... | 1.10 | 3.00 |
| Rosa multiflora, thorny..... | .90 | 2.50 |
| Taxus media hicksii..... | 4.50 | 12.00 |
| Thuja orientalis..... | .60 | 1.50 |
| Tulip Poplar (Liriodendron) northern..... | .40 | 1.00 |

NEW CROP SEED

| | Per lb. |
|---|---------|
| Chinese Arborvitae (Kansas)..... | 3.25 |
| Common Lilac..... | 3.25 |
| Rose Multiflora, thorny type..... | 3.25 |
| Tatarian Honey-suckle, c. s..... | 3.50 |
| Russian Olive, c. s..... | .80 |
| Russian Olive, d. b..... | .35 |
| French elder crab apple..... | 1.80 |
| Complete list of shrub and tree seeds on request..... | |

| | Per 100 |
|--|---------|
| Iris Spuria, Goldband Iris..... | \$ 7.50 |
| Red Cedar, 2-yr., T., select grafting grade..... | 9.00 |
| 3-yr., T., heavy, 12 to 18 ins..... | 10.00 |
| 2-yr., T., adlg..... | 5.50 |

FORESTRY SEED SERVICE

Div. of Home Nursery

Cuba, Kans.

SHRUBS and TREES

LINING-OUT STOCK

Fall, 1953—Spring, 1954

| | Per 100 | Per 1000 |
|--|---------|----------|
| 500 Acer Platanoides, 1-yr. adlg..... | \$ 7.00 | \$ 60.00 |
| 15,000 Althaea, 1-yr. adlg..... | 4.50 | 35.00 |
| 300 Ampelopsis Veitchii, 1-yr. adlg..... | 5.50 | 45.00 |
| 2150 Azalea Mollis, 2-yr. T..... | 25.00 | 200.00 |
| 16,000 Berberis Thunbergii, 2-yr. T, FR..... | 7.50 | 65.00 |
| 1000 Cornus Florida, grafting size..... | 6.00 | 50.00 |
| 3500 Cornus Kousa, 1-yr. adlg..... | 5.50 | 45.00 |
| 1000 Cotoneaster Divaricata, 2-yr. T, 9 to 12 ins., FR..... | 30.00 | 250.00 |
| 6000 Cydonia Japonica, 2-yr. adlg..... | 4.50 | 35.00 |
| 1440 Euonymus Radicans, 2-yr. TT, FR..... | 35.00 | 300.00 |
| 300 Euonymus Radicans Carrieri, 2-yr. TT, FR..... | 35.00 | 300.00 |
| 500 Ginkgo Biloba, 1-yr. adlg..... | 7.00 | 60.00 |
| 1000 Hydrangea P.G., 1-yr., 9 to 12 ins..... | 15.00 | 140.00 |
| 1000 Hydrangea P.G., 2-yr. T, 12 to 15 ins., FR..... | 30.00 | 250.00 |
| 3500 Koeleria paniculata, 1-yr. adlg..... | 7.00 | 60.00 |
| 450 Picea Excelsa, 4-yr. T, 9 to 12 ins., FR..... | 35.00 | 300.00 |
| 3700 Pieris Japonica, 1-yr. T..... | 10.00 | 90.00 |
| 6450 Pieris Japonica, 2-yr. TT..... | 30.00 | 250.00 |
| 1000 Quercus Borealis, 1-yr. adlg..... | 7.00 | 60.00 |
| 1500 Quercus Palustris, 1-yr. adlg..... | 7.00 | 60.00 |
| 1500 Rosa Rugosa, 1-yr. adlg..... | 5.50 | 45.00 |
| 1000 Rosa Rugosa, 6 to 8 ins..... | 8.50 | 75.00 |
| 1000 Rosa Rugosa, 9 to 12 ins..... | 12.50 | 110.00 |
| 2000 Taxus upright, 2-yr. adlg..... | 15.00 | 125.00 |
| 1750 Thuja Occidentalis Nigra, 3-yr. TT, FR..... | 70.00 | 600.00 |
| 1000 Thuja Occidentalis Pyramidalis, 2-yr. grafts, FR..... | 70.00 | 600.00 |
| 500 Thuja Orientalis Aurea Nana (Biotia), 2-yr. grafts, FR..... | 60.00 | 500.00 |
| 1000 Viburnum vulgare, 1-yr. adlg..... | 5.50 | 45.00 |
| 1500 Wistaria sinensis, 1-yr. adlg..... | 4.50 | 35.00 |
| T—Once Transplanted TT—Twice Transplanted FR—Field Row | | |
| —Samples mailed on request— BOULEVARD NURSERIES Newport, R. I. | | |

SHRUBS

| | Per 100 | Per 1000 |
|--|----------|----------|
| Caryopteris Blue Mist, 18 to 24 ins..... | \$ 35.00 | \$320.00 |
| Deutzia Gracilis, 12 to 15 ins..... | 35.00 | 320.00 |
| Euonymus Patens, 15 to 18 ins..... | 80.00 | 700.00 |
| Forsythia Spring Glory, 2 to 3 ft..... | 50.00 | 400.00 |
| Hydrangea Aconitifolia, 15 to 18 ins..... | 50.00 | 400.00 |
| Hypericum Patulum, 15 to 18 ins..... | 45.00 | 350.00 |
| Philadelphus Aias, 2 to 3 ft..... | 50.00 | 400.00 |
| Philadelphus Mt. Shasta, 3 to 4 ft..... | 55.00 | 400.00 |
| Pyracantha Lalandi, 5-in. pots..... | 70.00 | 650.00 |
| Salix French Pussy Willow, 3 to 4 ft..... | 35.00 | 320.00 |
| Salix Purpurea Nana, 15 to 18 ins..... | 20.00 | 175.00 |
| Salix Purpurea Nana, 18 to 24 ins..... | 22.50 | 200.00 |
| Spiraea Mongolica, 18 to 24 ins..... | 55.00 | 450.00 |
| Syringa Henri Lutece, 2 to 3 ft..... | 80.00 | 700.00 |
| Viburnum Burkwoodi, B&B, 2 to 3 ft..... | 225.00 | |
| Viburnum Burkwoodi, B&B, 3 to 4 ft..... | 250.00 | |
| Viburnum Plicatum Grandiflorum, 2 to 3 ft..... | 90.00 | |
| Weigela Bristol Ruby, 2 to 3 ft..... | 60.00 | |
| 25 at the 100 rate, 250 at the 1000 rate. | | |

SPRINGBROOK GARDENS

Mentor, O.

NURSERY STOCK

Extra-heavy and Ready for the Field

| | Per 100 |
|--|----------|
| Taxus cuspidata capitata, 10 to 12 ins., 3-yr. TT..... | \$ 55.00 |
| Taxus cuspidata, 10 to 12 ins., 3-yr. TT..... | 50.00 |
| Taxus media hicksii, 12 to 15 ins., 6-yr. TTT field..... | 150.00 |
| Two-yr. plants, 14 yr. in pots and 1 yr. in open field beds..... | |
| Taxus cuspidata capitata, 8 to 10 ins..... | 45.00 |
| Taxus cuspidata, 8 to 10 ins..... | 35.00 |
| Taxus cuspidata brownii, 6 to 8 ins..... | 40.00 |
| Taxus media hicksii, 8 to 10 ins..... | 35.00 |
| European White Birch, 12 to 18 ins., 8-yr. adlg..... | 15.00 |
| Euonymus yedensis, 12 to 18 ins..... | 10.00 |

FRED P. STROHL

1404 N. Anthony Blvd., Fort Wayne, Ind.

FLOWERING CRAB APPLES AND PLUMS

Patented: Crimson Brilliant; strong 2-yr. trees, \$3.50 each; 3 for \$9.75; \$35.00 per doz.

New: 1-yr. budded Almey, Charlotte, Dorothea, Patricia, Evelyn, Irene, Katherine, Kingsmere, Magdeburg, M. Oyama, Nieuwlandiana, Prince Georges, Redfield, Redford, Van Eseltine, Bob White, 2 to 3 ft., \$1.00; 3 to 4 ft., \$1.35; 4 to 5 ft., \$1.65; Whips 25% less.

Older, Good: 1-yr. budded Aldenham, Arnold, atrosanguinea, Delgo floribunda, Hopa, huphensis, micromalus, Parkman, purpurea, Scheidecker, spectabilis, riveria, sumi calocarpa, 3 to 4 ft., 80c; 4 to 5 ft., \$1.00; Whips 25% less.

3-yr., Transplanted: Hopa, Eley, Aldenham, micromalus, Scheidecker, atrosanguinea, Magdeburg, Charlotte, 5 to 6 ft., \$1.25; 6 to 7 ft., \$1.50; 7 to 8 ft., \$1.75. 1-yr. Grafts: Almey, Dorothea, Lemoine, Katherine, Van Eseltine. Whips 12 to 18 ins., 45c; 18 to 24 ins., 50c; 2 to 3 ft., 60c; 3 to 4 ft., 75c; 4 to 5 ft., 90c.

THUNDERCLOUD P. L. PLUM: Tree form, well-branched; 4 to 5 ft., 80c; 5 to 6 ft., \$1.00.

Packing additional at cost. For less than 10 of a kind add 10%. Shipment can be made any time after about Dec. 1.

SIMPSON ORCHARD CO.

BOX 88 VINCENNES, IND.

LINING-OUT STOCK

| | Per 100 | Per 1000 |
|--|---------|----------|
| Aronia arbutifolia, brilliantissima, 1-yr. adlg., 4 to 6 ins..... | \$ 6.00 | \$ 50.00 |
| Aronia arbutifolia, brilliantissima, 1-yr. adlg., 8 to 12 ins..... | 8.00 | 75.00 |
| Deutzia gracilis, 4 to 6 ins..... | 6.00 | 50.00 |
| 6 to 8 ins..... | 8.00 | 75.00 |
| 1-yr., field-grown, X, 8 to 12 ins..... | 35.00 | |
| Euonymus coloratus, R. C., 6 to 8 ins..... | 8.00 | 75.00 |
| Pieris Japonica, 1-yr., X, 3 to 5 ins..... | 12.00 | 100.00 |
| Pieris Japonica, 2-yr., hed-grown, XX., 5 to 8 ins..... | 25.00 | |
| Euonymus vegetus, 1-liners, 2 to 4 ins..... | 8.00 | 75.00 |
| 1-liners, 4 to 6 ins..... | 10.00 | 90.00 |
| Forsythia spectabilis, 1-liners, 4 to 6 ins..... | 6.00 | 50.00 |
| 1-liners, 8 to 12 ins..... | 8.00 | 75.00 |
| Forsythia Spring Glory, 1-liners, 4 to 6 ins..... | 6.00 | 50.00 |
| 1-liners, 8 to 12 ins..... | 10.00 | 90.00 |
| Field-grown, 2 to 3 ft..... | 40.00 | |

PLANE VIEW NURSERY

Newport, R. I.

FLOWERING TREES AND SHRUBS

| | Per 1000 |
|--|----------|
| 500 Philadelphus Virginal, 18 to 24 ins..... | \$150.00 |
| 1200 Philadelphus Brachybotrys, 2 to 3 ft..... | 125.00 |
| 200 Philadelphus Innocence, 2 to 3 ft..... | 300.00 |
| 5000 Salix Purpurea Nana, 12 to 15 ins..... | 125.00 |
| 3000 Forsythia Spectabilis, 2 1/2 to 3 1/2 ft..... | 150.00 |
| 500 Amur River Privet, 2 to 3 ft..... | 100.00 |
| 500 Populus Italica Nigra, 4 to 5 ft..... | 125.00 |
| 100 Populus Italica Nigra, 5 to 6 ft..... | 175.00 |
| 1-yr., bushy, 2000 Populus Italica Nigra, 2 to 3 ft..... | 50.00 |
| 200 Populus Italica Nigra, 3 to 4 ft..... | 75.00 |

ELAN MEMORIAL PARK NURSERY

116 E. Front St. Berwick, Pa.

CHINESE CHESTNUTS (U.S.A. STOCK)

| | Each | Each |
|------------------------------------|--------|--------|
| 1-yr. seedlings, 12 to 15 ins..... | \$0.30 | \$0.25 |
| 16 to 24 ins..... | .35 | .30 |
| 2-yr. seedlings, 12 to 24 ins..... | .40 | .35 |
| 25 to 36 ins..... | .60 | .50 |
| 37 to 48 ins..... | .75 | .65 |

STUART PECAN NUTS.

| | Per lb. |
|---|---------|
| 10 to 50 lbs., express..... | .35 |
| 100 lbs., express..... | .40 |
| BUXUS SEMPERVIRENS, 18 to 24 ins., 6 yrs..... | 1.75 |
| 25 at the 100 rate, 250 at the 1000 rate. | 2.00 |

GRAY STONE NURSERY

Loachapeke, Ala.

VIBURNUM CARLESI

This is the first time since the beginning of the war that we have been able to offer a batch of Viburnum Carlesi seedlings. All these years we have not been able to buy any seed and still cannot buy any but can offer these seedlings because we have our own seed by this time.

Strong 2-yr. seedlings, 8 to 12 ins. or better, \$30.00 per 100, \$250.00 per 1000.

C. HOOGENDOORN

Turner Rd. Newport, R. I.

CARYOPTERIS CLANDONENSIS

FERNDOWN

Award of Merit, Royal Horticultural Society, September, 1953. We are prepared to negotiate with any American nurseryman willing to purchase the right to sell this plant in the United States.

D. STEWART & SON, LTD.

Ferndown Nurseries

Dorset, England

SHRUBS and TREES—Continued

MAGNOLIA GRANDIFLORA
Well-established pots, shipped now or later. Cash and no packing charge. 2½-in. pots, 4 to 10-in. plants, \$15.00 per 100, \$130.00 per 1000. 300 at 1000 rate. 2½-in. pots, 3 to 4-in. plants, \$10.00 per 100. 4-in. pots, 8 to 12-in. plants, \$25.00 per 100. Bare-root plants for spring, 1954, 6 to 12 ins., 10c; 1 to 2 ft., 15c; 2 to 3 ft., 25c; 3 to 6 ft., 50c. Magnolias in gal., and 4-gal. cans at nursery. Following in 2½-in. pots: Blue Mist Spirea, 6 to 12 ins., 15c. Pfitzer Juniper, 15c; Pyracantha Coccinea, 15c; Laurel Cherry, 10c.

HARWELL NURSERY
Van Buren, Ark.

MAGNOLIAS
Soulangeana, Nigra and Rustica Rubra. We are now booking orders for these finest-quality liners. Many are slightly branched. A sure money-maker for you. Write for our list of items in gallon cans. Wholesale only. Per 100
8 to 12-in. liners.....\$30.00
12 to 18-in. liners.....35.00
18 to 24-in. liners.....40.00
2 to 3-ft. liners.....50.00
BLACKWELL NURSERIES, INC.
Semmes, Ala.

ORIENTAL MAGNOLIA

Per 100 Per 1000
Magnolia Soulangeana, 2½-in. pot.....\$30.00
Magnolia Soulangeana Nigra,
2½-in. pot.....25.00
Each
Magnolia Soulangeana Nigra, field-
grown bare-root, 2 to 3 ft.....\$1.25
3 to 4 ft.....2.00
WELCH BROS. NURSERY, INC.
Wilmer, Ala.

1000 EUONYMUS PATENS
24 to 30 ins., B&B.....\$2.25 ea.
30 to 36 ins., B&B.....2.75 ea.
2000 EUONYMUS PATENS
18 to 24 ins., Bare-root......65 ea.
15 to 18 ins., Bare-root......50 ea.
1000 UPRIGHT BLUE JUNIPERS
Sheared, compact, 4 to 5 ft., B&B.....6.00 ea.
BRUENING'S NURSERIES
Hicksville, Mo.

ABELIA GRANDIFLORA
Heavily branched, excellent color. Grown on new land.
Per 100 Per 1000
2 to 3 ft.....\$35.00 \$300.00
3 to 4 ft.....45.00 375.00
4 to 5 ft.....50.00 500.00
Special discount on carload or truck lots.
CHIPOLA NURSERIES
Marianna, Fla.

HYDRANGEA
100 Each 1000 Each
Hydrangea P. G., 2 to 3 ft.....\$0.40 \$0.30
18 to 24 ins......30 .20
12 to 18 ins......20 .15
No. 1 rooted layers......08 .07
Large-flowered, speci. by selected type.
CHAMPION NURSERIES
Perry, O.

SILVER MAPLE
Per 1000
Seedlings, 6 to 12 ins.....\$10.00
12 to 18 ins.....15.00
Transplants, 6 to 12 ins.....15.00
12 to 18 ins.....20.00
EDMOND L. BABCOCK NURSERY
32 West Ave. Danville, N. Y.

PRUNUS MARITIMA
(Beach Plum)
Strong 1-yr., seedlings, 100 1000
6 to 12 ins.....\$10.00 \$ 75.00
2-yr., S, 12 to 18 ins.....17.50 150.00
3-yr., T, 18 to 24 ins.....30.00 250.00
C. H. HOOGENDOORN
Turner Rd. Newport, R. I.

SEEDLINGS
Per 1000
Acer palmatum, 1-yr. sdgs.....\$ 40.00
Cotoneaster horizontalis, 1-yr. sdgs.....100.00
Pinus thunbergi, 2-yr. sdgs.....50.00
VAN HOF NURSERIES
54 Bristol Ferry Rd. Portsmouth, R. I.

WHITE BIRCH
Collected Stock Per 100
2900 4 to 8 ins.....\$1.50
1300 8 to 12 ins.....2.50
HAWTHORNE NURSERY
Box 95, Hawthorne, Wis.

CALIFORNIA PRIVET
1-yr., 10 to 18 ins., well-rooted,
\$30.00 per 1000, bare-root.
THE HOMESTEAD NURSERY
Pemberton, N. J.

CITRUS TRIFOLIATA
Seedlings, 2 to 4 inches, \$2.00 per 100,
\$25.00 per 1000. Postpaid. Cash please.
PERRY NURSERY
Woodbine, Ga.

Surplus Stock
can be easily and quickly turned into
Cash
by listing it in the
American Nurseryman Classified Ads.

VEGETABLE ROOTS

ASPARAGUS ROOTS
Per 1000
Mary Washington, 2-yr. Plants.
1000 to 5000 plants.....\$17.00
5000 to 10,000 plants.....16.00
10,000 plants and over.....15.00
Approximate weight per 1000 plants,
packed for shipment 90 lbs. No packing
charges for cash with order. Satisfaction
guaranteed.

PRITCHARD NURSERIES
Rt. 4 Ottawa, Kan.

VINES

HONEYSUCKLE
Lonicera halliana Japonica
Heavy 2, 3 and 4 yrs., No. 1 field plants,
3 to 4 leads, 18 to 24 ins., carefully graded,
\$4.00 per 100, \$30.00 per 1000.
Lonicera sempervirens, Scarlet-red.
Heavy 18 to 24 ins., \$10.00 per 100, \$50.00 per
1000. No orders too large; immediate ship-
ment.

WOODLAWN NURSERY
Greenville, Ga.

MISCELLANEOUS

POTTED GRAFTS
Per 100 Per 1000
1-yr. Seedlings
Acer Palmatum, 6 to 8 ins.....\$ 4.00 \$ 35.00
Chinese Chestnut Trees,
10 to 12 ins.....20.00
Cornus Florida, grafting grade.....6.00 50.00
Cornus Florida, 6 to 15 ins.....4.00 35.00
Syringa Vulgaris, 6 to 12 ins.....3.00 25.00

2-yr. Seedlings
Berberis Atropurpurea,
4 to 6 ins.....5.00 40.00
Ilex Crenata, 4 to 6 ins.....6.00 50.00
3-yr. Seedlings
Thuja Orientalis, 8 to 12 ins.....3.50 30.00
Tsuga Canadensis, 2 to 4 ins.....6.00 50.00
Tsuga Caroliniana, 3 to 4 ins.....6.00 50.00

Rooted Cuttings Transplanted—X
Arborvitae, Globe, 6 to 8 ins.....10.00 90.00
Arborvitae, Nigra, 4 to 6 ins.....10.00 90.00
Euonymus Patens, 8 to 10 ins.....10.00
Ilex Bullata, 4 to 6 ins.....10.00 85.00
Ilex Crenata, 6 to 8 ins.....10.00 90.00
Ilex Rotundifolia, 6 to 8 ins.....12.00 100.00
Juniper, Andorra, 6 to 8 ins.....12.00 100.00
Juniper, Hetz, 6 to 8 ins.....12.00 100.00
Juniper, Irish, 8 to 14 ins.....20.00
Retinospora Plumosa Aurea,
6 to 8 ins.....10.00 90.00
Taxus Brevifolia, 6 to 8 ins.....15.00
Taxus Cuspidata, 6 to 8 ins.....15.00
Taxus Hicksi, 4 to 6 ins.....10.00 90.00
Viburnum Burkwoodi,
12 to 18 ins.....50.00

3-yr. Transplants
Picea Excelsa, 6 to 8 ins.....6.00 50.00
Picea Pungens Glauca,
4 to 6 ins.....7.00 60.00
Picea, White Spruce, 6 to 8 ins.....6.00 50.00
Pinus Strobus, 4 to 6 ins.....5.00 40.00
Pinus Sylvestris, 4 to 8 ins.....5.00
Thuja Occidentalis, 4 to 6 ins.....6.00
4-yr. Transplants
Picea Excelsa, 10 to 15 ins.....15.00 140.00
Tsuga Canadensis, 5 to 8 ins.....10.00 95.00
8 to 10 ins.....15.00 140.00
10 to 12 ins.....20.00 190.00

VAN DINE NURSERY
Berden Avenue
Preakness, Paterson, N. J.

LINING-OUT STOCK
All heavy, pot-grown. Fall and spring
delivery.

Per 100 Per 1000
Deutzia Graecilis, 2-in. pot.....\$15.00 \$125.00
Ribes Alpinum, 2-in. pot.....20.00 185.00
Juniperus Depressa Plumosa,
2½-in. pot.....20.00 185.00
Juniperus Glauca Hetzi,
2½-in. pot.....20.00 185.00
Taxus Cuspidata, 2½-in. pot.....25.00 225.00
Taxus Hicksi, 2½-in. pot.....27.50 250.00
Taxus Hatfieldi, 2½-in. pot.....27.50 250.00
Thuja Pyramidalis, 2½-in. pot.....22.50 200.00
Thuja Elegans, 2½-in. pot.....22.50
Thuja Woodwardi, 2½-in. pot.....22.50 200.00
Thuja Wareana, 2½-in. pot.....22.50
Ilex Convexa, 2-in. pot.....15.00
Ilex Rotundifolia, 2-in. pot.....15.00

Listed items subject to prior sale. No
charge for packing when cash accompanies
order.

THE HOLLANDIA GARDENS
So. Vienna, O.

QUALITY STOCK
Chinese Arborvitae, sheared one time,
3 to 4 ins.....\$1.00
Compact Green Globe Arborvitae,
24 to 30 ins.....1.00
Chinese Elm, 1-in. cal., 8 to 10 ins.....1.00
Euonymus Radicans, 12 to 18 ins.....1.00
Juniperus Virginiana, sheared dense,
30 to 36 ins.....1.00
Purpurea Honeysuckle, sheared globes,
B&B, 18 to 24 ins.....1.00
Truckloads at nursery.

LUKE NURSERY
Phone 116 Pauls Valley, Okla.

QUALITY LINERS

Each
Albertina Spruce, 4 to 6-in. pots.....\$0.25
Abies Pinsapo Glauca S.T., 6 to 8 ins.,
2-yr......35
Azalea Mollis Flame S.T.,
6 to 8 ins......25
8 to 10 ins......30
Azalea Gumpo, 6 to 8 ins......30
Azalea Rosa Florum, 4 to 6 ins......25
Clematis Montana Rubens, pots......35
Canadian Hemlock, 6 to 10-in. pots......25
Daphne Mezereum, S......07
4 to 6 ins......12
6 to 8 ins......15
10 to 12 ins......25
12 to 14 ins......30
Heather, Carne, T......15
Heather, Mediterranean Hybrid, T......12
Heather, Vivelli, T......15
Juniperus Myer, 10 to 12 ins., T.T......40
Juniperus Tamariscifolia, 4 to 6 ins......15
6 to 8 ins., T.T......18
6 to 8 ins., T.T......25
Rhododendron Ponticum, 4 to 6 ins., T......20
Rhododendron Ponticum, 6 to 8 ins., T......25
Thuja Woodwardi Globosa, 4 to 6 ins., T......14
6 to 8 ins., T......17
8 to 10 ins., T......25
Viburnum Davidi, 2½-in. pots......50

FOUR STAR NURSERY
Rt. 3, Box 3529 Edmonds, Wash.

LINING-OUT STOCK
Quality-grown lining-out stock.
Priced per 100.

6 to 8 \$ 8 to 12
ins. ins.
Buxus Harlandi.....\$12.50 \$17.50
Buxus Japonica.....12.50 17.50
Camellia Sasanqua, in variety.....12.50 15.00
Folija Sellowiana
(Pineapple Guava).....12.50 15.00
Gardenia Fortunei.....10.00
Gardenia Mystery.....10.00
Gardenia Radicans.....7.50 10.00
Ilex Cornuta Burfordi.....17.50 20.00
Ilex Crenata Convexa.....15.00 17.50
Ilex Crenata Rotundifolia.....15.00 17.50
Laurel Cherry, transplanted.....10.00
Laurel Cherry, seedlings.....7.50
Magnolia Grandiflora.....10.00 12.50
Write for our new price list, just out. Also
list of container-grown stock.

Wholesale Only
BLACKWELL NURSERIES, INC.
Semmes, Ala.

WANTED

NEED LINING-OUT AND FINISHED STOCK
Starting new 30-acre nursery farms and
sales. Please mail me your list of surplus
stock or wholesale trade list, including quan-
tities available. I'll also need a large amount
of equipment. What have you got? Please
write.

LAMBRECHT'S NURSERY FARM
AND SALES
1024 Merriman Rd. Wayne, Mich.

SUPPLIES
and
SERVICES

BIRD FEEDERS

BIRD FEEDERS
Wild bird feeding stations and houses are
now big business. If located in a suburban
or rural area, you can share big profits,
generous discounts, fast turnover and many
repeat sales.

Write on your letterhead for catalog HN.
McHUTCHISON & CO.
95 Chambers St. 311 S. E. Belmont
New York 7, N. Y. Portland 14, Ore.

BLUEPRINTS

PROPAGATING HOUSE BLUEPRINTS
Complete constructional blueprints of a
modern cash-type propagating house are
now available. 2 sheets including layout of
heating, \$25.00 per set.

J. S. WELLS
c/o D. Hill Nursery Co.
Dundee, Ill.

BURLAP

NURSERY BURLAP
Burlap squares and sheets for baling pur-
poses, made from selected used burlap and
bags free of oil, smell or chemical stock. All
vacuum machine-cleaned and holes sealed
up. We also have a supply of open mesh
onion bags in sheet form, measuring 33x36
ins. Samples and prices cheerfully submitted
on request.

STERLING BAG & BURLAP CO.
41 Carolina St. Buffalo 1, N. Y.

DECORATIVES

PINE CONES

Approx.
 1 bu. Lobloolly Pine cones, 3 1/2 to 4 1/2 ins. \$2.50
 100 White Spruce cones, most of the
 above good for corsages, 1 1/2 to
 2 ins. 3.00
 125 Norway Spruce cones, 4 1/2 to 6 ins. 5.00
 100 Hard cones, 1 1/2 to 2 1/2 ins. 2.00
MARYLAND NURSERY Hyattsville, Md.

FLATS

MINNESOTA WHITE CEDAR FLATS

| No. | Size | Per 100 |
|-----|-----------------|---------|
| 1. | 14x20x2 1/2 | \$24.00 |
| 2. | 14x20x3 1/2 | 27.75 |
| 3. | 12x18x2 1/2 | 18.50 |
| 4. | 12x18x3 1/2 | 21.75 |
| 5. | 14x16x2 1/2 | 20.75 |
| 6. | 14x16x3 1/2 | 24.50 |
| 7. | 15x22x2 1/2 | 27.25 |
| 8. | 15x22x3 1/2 | 31.50 |
| 9. | 11 1/4x22x2 1/2 | 23.00 |
| 10. | 11 1/4x22x3 1/2 | 26.00 |
| 11. | 13 1/2x16x5 1/2 | 30.00 |
| 12. | 5x5x11 | 16.00 |
| 13. | 5x5x16 | 18.50 |

All other sizes quoted on request.
 5 per cent discount on orders of 1000 or more.

The above sizes are inside. Bottoms and sides are 3/4-in. and ends are 1/2-in. thick. All material surfaced on one side. All shipments by truck unless otherwise ordered.

Your name and address printed up to three lines in black, weather and waterproof ink, on one or both end pieces at the following rates: \$1.00 set up charge plus 1/2 cent per end piece for the first 1000 ends, 1/4 cent per end thereafter.

Shipped knocked-down in bundles of 25. F.O.B. Cook, Minn. Attach check. Order by number.

H. C. HILL & SONS, Cook, Minn.

FLATS

Made from a good grade of southern Yellow Pine dipped in Rot Not wood preserver for longer life.

| Standard specifications, inside measurements. | Per 100 |
|---|---------|
| 16 x12x2 1/2 | \$20.38 |
| 16 x14x3 1/2 | 27.06 |
| 20 x14x2 1/2 | 26.61 |
| 20 x14x3 1/2 | 31.97 |
| 22 x15x2 1/2 | 30.49 |
| 22 x15x3 1/2 | 35.35 |

All other sizes quoted on request. Prices F.O.B. Birmingham, Ala. We are manufacturers, not jobbers. Our quality guaranteed. Prompt shipment on any quantity. Mixed shipments of Flats, Plant Boxes and Spray Boards. Write for our price list on these items. Attach check to order.

HIGHTOWER BOX & TANK CO.

F. O. Box 1449
 Birmingham 1, Ala.

REDWOOD FLATS, K. D.

Finest stock obtainable. Guaranteed all clear heart. Size 20x15x3 ins. inside measure, \$42.00 per 100.

1x1-in. Cypress stakes, pointed.

50 pcs. to bundle, 4 ft., \$3.50 per bd. l.
 50 pcs. to bundle, 5 ft., \$4.50 per bd. l.
 50 pcs. to bundle, 6 ft., \$5.50 per bd. l.

Ship same day. Cash with order, please.

YOHO & HOOKER, Youngstown 2, Ohio

HAY

MARSH HAY FOR MULCHING

Clean; no weeds. Truckloads or carloads.

KOPFF HAY CO.

Beaver Dam, Wis.

LABELS

DAHLIA OR TREE LABELS

Plain Painted

| Size | Notched (not wired) | Wired (copper) |
|------------------|---------------------|----------------|
| 3 1/2 x 1/2 ins. | \$2.50 | \$3.00 |
| 3 1/2 x 1/2 ins. | 3.50 | 4.10 |

POT LABELS

| Size | Cartons 1000 each | Cartons 500 each |
|--------------|-------------------|------------------|
| 4 x 1/2 ins. | \$3.30 | \$3.95 |
| 5 x 1/2 ins. | 3.60 | 4.30 |
| 6 x 1/2 ins. | 3.90 | 4.85 |

Price per carton

| Size | Cartons 1000 each | Cartons 500 each |
|---------------|-------------------|------------------|
| 8 x 1/2 ins. | \$3.00 | \$3.60 |
| 10 x 1/2 ins. | 3.50 | 4.25 |

GARDEN STAKES

| Size | Cartons 1000 each | Cartons 500 each |
|---------------|-------------------|------------------|
| 8 x 1/2 ins. | \$2.50 | \$3.00 |
| 10 x 1/2 ins. | 2.75 | 3.25 |
| 12 x 1/2 ins. | 1.75 | 2.00 |

Our labels are perfectly white and smooth on both sides and are pronounced by growers the best and most economical.

"We ship the same day."

YOHO & HOOKER

Youngstown 2, O.

ORCHID SUPPLIES

TOP-QUALITY OSMUNDA

Brown, Black, Yellow or Mixed. Large 50 to 65 lb. bales, \$10.00, F.O.B. Florida. Prices on larger quantities. Orchid plants, supplies and books on request.

FINCK FLORAL CO.

Rt. 12, Box 287 Kirkwood 22, Mo.

OSMUNDA: Fresh-cut "live" fiber

at all times.

Professional bag, \$2.50; Bushel, \$5.00

Standard Bale, \$12.00

PLASTIC LABELS—Copper or nickel-bearing wire.

| Pot. | Size | 100 | 500 | 1000 |
|------|-------------|--------|--------|--------|
| 1/2 | by 3/4 ins. | \$1.50 | \$4.95 | \$2.50 |
| 1/2 | by 4 ins. | 1.95 | 7.95 | 15.00 |

Orchid Spec., 1/2 by 4 1/2 ins.,

red, blue, green, yellow

and white 2.10 8.95 16.00

Wired, 1/2 by 2 ins., white... 1.95 7.95 15.00

1/2 by 3 1/2 ins., white... 2.15 9.00 17.00

1/2 by 3 1/2 ins., blue, green, red and yellow..... 2.25 9.45 18.00

White Strap Label,

1/2 by 6 1/2 ins..... 2.10 8.95 16.00

—Special—

NEW PRICE—ORIGINAL BUBBLE VASE

LAPEL PINS, \$1.25 doz. 2, 3, 5-in. Orchid tubes with rubber caps, 60c per doz., \$4.10 per 100.

WRIGHTWOOD FLORAL CO., INC.

2407 N. Main St. Houston 2, Tex.

Prices F.O.B. Houston. Subject to change without notice.

More customers for you!

Over 7,600 subscribers, all active buyers, see your ad in the American Nurseryman.

PEAT

COLBY PIONEER PEATS.

GRANULATED PEAT MOSS (ACID).

2 1/2-bu. plastic-lined bags, approx. wt. 35 lbs.

1 to 10 bags.....\$1.25

10 to 25 bags.....1.15

25 or more.....1.00

HI-NITROGEN HORT. PEAT (NEUTRAL).

2 1/2-bu. plastic-lined bags, approx. wt. 50 lbs.

1 to 10 bags.....\$1.25

10 to 25 bags.....1.15

25 or more.....1.00

BLACK CULTIVATED PEAT HUMUS

(SWEET).

2 1/2-bu. plastic-lined bags, approx. wt. 75 lbs.

1 to 10 bags.....\$1.25

10 to 25 bags.....1.15

25 or more.....1.00

F.O.B. Hanlontown, Ia.

Terms: 2 per cent cash discount.

COLBY PIONEER PEAT CO.

Hanlontown, Ia.

RAFFIA

NATURAL MADAGASCAN RAFFIA

First-quality Majunga and Eastcoast types.

Prices and samples on request.

BERKERY, INC.

62 Reade St. New York 7, N. Y.

SOIL-TESTING SERVICE

SOIL TESTING

Soil-testing and consultation services to help you grow better crops. Rapid, accurate tests for pH, organic matter, nitrogen, phosphorus, potassium, calcium and four minor elements cost only \$5.00 per sample, or write for costs on a soil-testing consultation program.

DR. WOLFS

AGRICULTURAL LABORATORIES

Rt. 4, Fairton Rd. Bridgeton, N. J.

SPHAGNUM MOSS

SUPERIOR QUALITY SPHAGNUM

Write or wire for prices of wire-bound or burlaped bales in carlots or less.

NORTH AMERICAN MOSS CO.

610 Lincoln St. Wisconsin Rapids, Wis.

Advertisers' Experience Shows

American Nurseryman Classified Ads

Bring Results.

STAKES

CYPRESS PLANT STAKES

50 Pieces to Bundle.

1x1-in.—3 ft., pointed.....\$2.50 per bundle

1x1-in.—4 ft., pointed.....3.50 per bundle

1x1-in.—5 ft., pointed.....4.50 per bundle

1x1-in.—6 ft., pointed.....5.50 per bundle

1x1-in.—7 ft., pointed.....7.00 per bundle

These stakes are made of cypress and redwood, are good, strong stakes and will give long service. "A little better than seems necessary."

WE SHIP SAME DAY!

YOHO & HOOKER

Youngstown, Ohio

HEAVY BAMBOO STAKES.

EXCEPTIONALLY FINE QUALITY.

Per bale of 100 % to 1-in. % to 1-in.

4 ft.\$4.20 \$ 6.15

6 ft.5.20 6.40

8 ft.6.25 7.70

7 ft.7.20 8.95

8 ft.8.35 10.25

F.O.B. Centertown, Ky.

Add 10 per cent for green dyed.

Write for discount on large quantities.

A. C. PATTERSON, Centertown, Ky.

STAKES, GALVANIZED HARD STEEL.

STAKE FASTENERS and COTTON TWINE.

Prices and samples sent upon request.

SCHUFF SUPPLY CO., Wilmette, Ill.

OKLAHOMA CITY NOTES

Following the October lull, which is usual in the Oklahoma City area, business has picked up rapidly and nurserymen report prospects are excellent for the coming months. A backlog of orders accumulated because of the late fall season this year, and recent rains and bright, mild weather at this time have combined to bring ideal planting conditions for the busy nurserymen.

Stock is sufficient and in good variety, with only large magnolias and a few other such items in short supply. Some of these have been available, but the supply has lagged somewhat behind the demand. One of the most popular nursery items in this area has been the versatile Euonymus japonica, which has been much in demand for neat, shiny hedges for modernistic buildings being erected now. One nurseryman reported aptly that time was about the only important shortage now as nurserymen rush to fill orders that have been accumulating for several weeks.

Mr. and Mrs. J. B. McFarland, of McFarland Nurseries, are visiting in California. They are expected to return early in December.

Mr. and Mrs. Warren Welch, of Capitol Gardens, and their two young daughters spent Thanksgiving at Houston, Tex. B. H. P.

SOME MAILING RATES UP

The interstate commerce commission has authorized increases in the parcel-post rates on catalogs and similar printed advertising matter amounting to about 17 per cent. The ICC earlier this year authorized a 36 per cent increase in parcel-post rates generally, but at that time reserved a decision on the catalog and similar groups. The effective date of the new charges was left to the discretion of the Postmaster General.

The higher parcel-post charges were proposed by the outgoing Democratic administration and adopted by the new administration in an effort to reduce the large postal deficit. The ICC specifically found that package mail was being handled at substantial losses.

The present catalog rates range by zones from 10 cents to 18 cents for the first pound and are quoted to apply to full pounds only, fractions being treated as a whole pound.

The new rates range, by zones, from 12 cents to 20 cents for the first pound and provide half-pound gradations for additional poundage.

WANTED and FOR SALE ADS

Help and Situation Wanted and For Sale Advertisements.

Display: \$4.00 per inch, each insertion.

Lines: 35¢ line; minimum order **\$3.50**.

FOR LEASE BOTANICAL NURSERY SITE

Approximately 70 acres on Emory Valley road, adjacent to the University of Tennessee agricultural research property. This site is conveniently located near the town and is on one of the more heavily traveled roads in Oak Ridge.

Since Oak Ridge does not have a nursery, this represents an excellent opportunity to serve Oak Ridgers, individual home builders and homeowners in new developments nearby.

Premise sketches and application forms are available upon request. Proposals will be accepted up to 2:00 p.m., Tuesday, January 19, 1954. Phone, wire or write NOW!

Management Services, Inc., acting as agent for the United States of America, reserves the right to reject any and all applications and to waive any informalities in applications received.

**COMMERCIAL PROPERTIES
MANAGEMENT SERVICES, INC.**

P. O. Box B
Telephone 5-4361

Oak Ridge, Tenn.
Extension 57 or 98

FOR SALE

Peerless booster pump, 10 h.p., 3-phase, 50 to 60 cycle, 3000 to 3600 r.p.m., 220 to 440 volt, continuous duty, 100-lb. pressure.

PFINGSTL'S NURSERY
P. O. Box 1870 Montgomery, Ala.

FOR SALE

Thriving nursery business, 38 miles north of New York city in Orange county. 12 acres of salable-size stock, all varieties. Stone residence with nine rooms and bath, heated; also office and small attached greenhouse. Five-car garage with five-room apartment above. For further details, write:

SANFORD DURLAND
Chester, N. Y.

FOR SALE

Landscape nursery, in Baltimore-Washington area. Complete equipment, new trucks, tractors, etc. 14 acres deep topsoil. Specimen material, land and all equipment for \$35,000. Address Box 998, care of American Nurseryman.

FOR SALE

TREE MOVERS
We have several used tree movers in 6 and 7-ft. ball capacity. These movers are used but in perfect condition.

WILLIAMS & HARVEY NURSERIES
CO.
Box 8822, Kansas City, Mo.
Phone: Gilmore 9000

FOR SALE

GARDEN CENTER

On main highway within 50 miles of New York city, in fast-growing residential town. Office and Orlyt greenhouse connecting with comfortable 8-room living quarters. Established landscape clientele. Good cash-and-carry business including Christmas trade. Good inventory. Reason for selling: Must settle large estate elsewhere. Act now and profit by spring business. For particulars write Box 21, care of American Nurseryman.

HELP WANTED

EXPERIENCED PROPAGATOR

Man capable of taking complete charge of greenhouses totaling 9000 sq. ft. with oil-fired automatic heat. Also to take charge of seedbeds and frames. Must understand grafting, rooting and growing of seedlings to supply nursery of 150 acres devoted to the growing of ornamental landscape material for the wholesale trade. Must furnish references. Address Box 984, care of American Nurseryman.

HELP WANTED

Greenhouse Propagator
Give references, age and salary.
BOYD NURSERY CO., INC.
McMinnville, Tenn.

SITUATION WANTED

Sales manager or assistant seeks definite opportunity with progressive nursery. Might also consider division supervision. Long, successful managing experience in related line, plus previous personal nursery sales. Also advertising, catalog, etc. Moderate initial compensation acceptable for real opportunity in this industry in which I have long been interested. Available soon. Address: A. C. Montgomery, Pineleaf Farm, P. O. Box 122, Harrington, Del.

HELP WANTED

EXPERIENCED NURSERYMEN

One of the largest nurseries in southern California offers profitable, permanent positions to experienced nurserymen; also, to horticultural and agricultural students and graduates. Must be able to work! Security, pleasant working conditions and unlimited future for the right men. Beginning salary \$300.00 per month.

MONROVIA NURSERY CO.
P.O. BOX 196
Monrovia, Calif.

HELP WANTED

DESIGNER-SALESMEN

We have two full-time, permanent positions open for men who can sell and draw own plans. Sales ability is of primary importance. If you can sell, you can earn from \$5000 up the first year, on a salary-plus-commission basis. You would be affiliated with one of the oldest, largest and most reliable nurseries in the midwest. It is easier to sell for a company with such a background. Positions open on or about January 1, 1954. For full particulars write or call R. A. Glaser, Branch Mgr., Higgenfritz Nurseries, Inc., Toledo, Ohio. KI. 5761.

HELP WANTED

Salesman calling on seed stores, nurseries and florists in eastern Massachusetts wanted to sell peat moss. Established firm. Give full details in first letter. Write Box 22, care of American Nurseryman.

HELP WANTED

Experienced gardener with knowledge of propagating, care of shrubs and lawns. Permanent position for married man. Two-bedroom house and utilities provided. State qualifications, references and salary expected. Address Superintendent, Dawes Arboretum, R. R. No. 5, Newark, O.

HELP WANTED—Experienced greenhouse and nursery operator to take full charge of all phases of greenhouse and nursery business including growing, propagating and sales. Salary and/or share-crop basis. Furnish qualifications, references and snapshot in first letter.

IRWIN-ALBRECHT FARMS, INC.
Box F Palmer, Alaska

HOLLY SOCIETY MEETS

[Continued from page 8]

Foundation of Swarthmore College at Swarthmore, Pa., holly nurseryman H. Gleason Mattoon, Narbeth, Pa., and the society's artist, Forrest Crooks, Doylestown, Pa., to select an appropriate award. After a thorough study, Mr. Crooks designed and created an unusual leaded stained-glass plaque, which Mr. Wolf presented to Dr. Hume on behalf of the society.

Holly Murals in Progress

The society's artist, Forrest Crooks, reported briefly on the progress of the eight 4x9-foot holly murals he is painting for the 30x60-foot multiple purpose Holly room in the Millville, N. J., Y.M.C.A. building. Each of the eight murals, Mr. Crooks related, depicts an important historical aspect in the culture of holly throughout the ages. These will be ready for the society's fall, 1954, meeting, at Millville.

Prof. Robert B. Clark reported on activities of the arboretum committee. Dr. Henry Skinner, of the National Arboretum, at Washington, D. C.; Dr. George Avery, Brooklyn Botanic Garden, and Dr. John C. Wister, of Swarthmore College, have been made members of his committee, Professor Clark said. The United States National Arboretum, the Missouri Botanic Garden and Swarthmore College, among others, are now approved testing grounds for selections and new species of hollies. They will receive cuttings or plants for this purpose as they become available from Rutgers.

Holly Check List Prepared

Dr. John C. Wister, director of the Arthur Hoyt Scott Horticultural Foundation of Swarthmore College, reported on "Bulletin 6," published by the Holly Society of America, November 13, 1953. He said that because of the present great interest in the holly group, many people have complained about the lack of reliable information on the holly names, descriptions and sources. The society's check list was prepared to help remedy this situation, he said.

The 56-page bulletin brings together for the first time a complete list of all the hollies, whether of wild or garden origin, tells who introduced these hollies, and tells about the persons responsible for their discovery, description, selection and propagation.

Continuing with the program, Dr. Ordway Starnes, assistant to the director of the New Jersey agricul-

Naturally— GOOD EARTH with PREMIER!

—that's why it's
GOOD BUSINESS
to use and sell
Premier Peat Moss



PREMIER Peat Moss gives you the *good earth* you need to grow all plants—because it is the *natural* organic soil conditioner with amazing absorbency. So *naturally*, it helps to keep soil loose, crumbly and porous—releases moisture, air and plant food as needed. And *naturally* Premier supplies the organic matter that all soils need. That's why Premier is *better* for soil conditioning . . . *better* for mulching, transplanting, propagating, lining out . . . and *better* as a resale item.

For *good earth*—and *good business*—use and sell Premier Peat Moss! In packages for every need—from 1-pot bags to big bales. Write today for prices on Canadian and European Peat Moss.

Premier Peat Moss Corp., 535 Fifth Ave., New York 17, N. Y.

PREMIER PEAT MOSS

The Natural Organic Soil Conditioner



- A 4 1/2" Vertical Pot or Border Stake.
- B 2" x 5" Horizontal Pot or Border Stake.
- C 6" Vertical Pot or Border Stake.
- D 2" Horizontal Tie on Tag.
- E 3" Horizontal Tie on Tag.

GRO-QUICK

LIFETIME PLANT AND SHRUB MARKERS

Preferred by professional and amateur growers of indoor and outdoor plants and shrubs. Made of durable, heavy gauge, molded white plastic. Guaranteed to withstand all kinds of weather. Write on them with ordinary pencil. Will not come off. Yet can be cleaned and re-used (a little scouring powder on a damp cloth).

Write today for free samples

Gro-Quick also manufactures Weed-Wand, Lifetime Plant-Ties, Seed-Soer and Electric Soil Heating Cable.

GRO-QUICK SALES

Dept. 7A 10342 Lanark, Detroit 24, Mich.

HAND TRUCKS

Especially built for handling
B&B nursery material. Are
built in three sizes, with
capacity up to 1500 lbs.

Illustrated is our small
model truck. One man
can easily handle 600-lb.
ball.



Write for folder giving details and prices.

THE GARDEN SHOP, Inc.

6315 West 75th St.

Overland Park, Kansas

Phone HEdrick 3288 (Kansas City, Mo., exchange)

"BRODLEAF" Imported HOLLAND PEAT MOSS

- ★ EXCELLENT QUALITY
- ★ HORTICULTURAL
- ★ STURDY BALES

Carlot Inquiries Invited...

HALF MOON MFG. & TRADING CO., INC.

90 WEST STREET—NEW YORK 6, N. Y. Telephone BArcley 7-8357



EDCO IRON

The new chelated organic iron*

Recommended for trial for Chlorosis
of Azaleas, Gardenias, Citrus, Roses and
similar plants.

5 lbs.—\$2.00 per lb., delivered
50 lbs.— 1.90 per lb., delivered
100 lbs.— 1.80 per lb., delivered
Usually applied at rate of 1/2 to 1
oz. per 100 sq. ft., or as a spray at 1 to
4 lbs. per 100 gals. of water.

DIRECTIONS ON LABEL

*Contains "Sequestrene" Brand

EDCO CORP.

ELKTON, MD.

ROOT-PROTECTOR bags by COMET are perfect for:

STORING—Fresh cut flowers and un-
rooted cuttings.

SHIPPING—Bare-root cuttings and
other nursery stock.

SELLING—Consumer packages of your
own treated soils, plant foods and
fertilizers.



**COMET ENVELOPE &
PAPER CO., INC.**

7 East 17th St.
New York 3, N. Y.

WOOD LABELS

For Nurserymen

**DAYTON
FRUIT TREE LABEL
CO.**

Ray and Kiser Sts. DAYTON, O.

IT COSTS NO MORE (and in most instances less) FOR OUR PACKING OF Nursery Burlap Squares and Rolls

Write for prices and samples

L. ATKIN'S SONS
P. O. Box 167 Rochester, N. Y.

ture experiment station, was introduced to the group. He extended cordial greetings to the society and invited the members to make a thorough visit to the experiment station, the agricultural college and Rutgers University.

There are many beautiful hollies in New Jersey, Dr. Starnes said, and the holly nursery business is becoming very important. The station is responsible for much of the good foundation work of the society, and this evidence is showing everywhere.

Dr. Starnes mentioned some of the important work being done at the New Jersey station. He cited as contributions their work on artificial breeding, their institute of microbiology and their development of streptomycin. The doctor commented on the institute of microbiology and said that they hope it will eventually become the world's storehouse for information on this subject.

New Holly Pest Found

Dr. Clyde C. Hamilton, of the department of entomology at Rutgers University and chairman of the society's insect committee, reported on results of spray experiments currently under way. In early May his attention was called to a small beetle boring in the twigs, stems, and branches of American hollies in a New Jersey orchard. These were identified as an ambrosia beetle, *Xylosandrus germanus*.

The beetles are black and about one sixteenth of an inch long. They winter over as adults and appear in April, starting to bore into twigs as small as one eighth of an inch. They may feed in larger twigs, limbs or the trunk of the trees. Their presence is indicated by fine white sawdustlike borings pushed out through small holes about one sixteenth of an inch in diameter. The beetles make tunnels in the wood which may be an inch or more in length. They inoculate these tunnels with spores of a fungus called ambrosia. Both the beetles and the larvae feed upon this fungus. When the fungus dries up it causes a bluish stain in the wood. All stages may be found from June to September and there are at least two principal broods, Dr. Hamilton said.

The insects may sometimes be quite abundant, 15 to 20 or more frequently being found in a 6-inch portion of a stem one half of an inch in diameter. Infected limbs die suddenly, the leaves turning brown and drying.

This ambrosia beetle is a native

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insect of Japan, Formosa and nearby countries. It was first found in the United States in the stems of greenhouse grapes in 1932. It has been reared in the United States from elm, oak, red maple, beech and hickory. This is its first record from American holly. It has also been observed to attack poison ivy. It is more likely to attack subnormal trees, fallen or broken limbs and freshly cut logs. On holly it was found attacking nursery holly plants two and one-half to four feet tall and the branches of limbs up to three fourths of an inch in diameter on apparently healthy growing holly trees in a holly orchard.

No Control Methods Available

No practical control measures are available other than to cut out and burn infested limbs or trees as they show up in May or early June. This ambrosia beetle seems to be generally distributed in several of the eastern states and may not become much of a pest unless the growth conditions

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To express our joy in having served you all during these last seven years, we wish you one and all—

A Merry Christmas!

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Namely, the Redhead Can Shear and the Handy-man Gripzit.

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of the trees are favorable for its development, Dr. Hamilton felt.

The application of the 2 per cent Superior-type dormant oil spray in late March and early April had a very beneficial effect in controlling the southern red mite. No live mites were observed on the oil-sprayed trees until sometime in August, and sprays for this pest were not applied until early September. A spray consisting of one gallon of a 25 per cent Aramite emulsion to 100 gallons of water was applied with a mist blower in early September and again in early October. Meanwhile, young nursery plants which had not received the dormant oil spray had three Aramite sprays up through July and two more in September and October. It would seem that more attention should be given to dormant oil sprays and possibly summer oil sprays. No injury occurred even where 4 per cent Pratt's Scalecide and 4 per cent Superior-type dormant oil sprays were applied in late August, reported Dr. Hamilton.

In his experiments on the control of an unidentified scale insect attacking the hollies, Dr. Hamilton mentioned some interesting developments. Larvae, pupae and adults of a ladybird, *Chilocorus bivulnerus* Mulsant, were noticed during the middle of August feeding upon the *Aspidiotus* scale on the holly trees. When the trees were examined on August 26, all stages, except the egg stage, were abundant. Thousands of the beetles and larvae were present on each of the scale-infested trees. Examinations made August 25 and 28 showed 67 per cent and 60 per cent, respectively, of the scales had been destroyed by the predators.

Examinations made from twigs collected October 16 showed three live scales out of more than 6,400 scales examined on growth made during the spring and summer of 1953.

Scale Controlled by Ladybird

The control of the *Aspidiotus* scale by the two-stabbed ladybird beetle was remarkable. It is possible that the control may have been made possible by the fact that only a very light spray of DDT had been applied for leaf miner control in May and no sprays had been applied for spider mite control until in early September. It is known that DDT sprays and phosphate sprays are very toxic to ladybird beetles. Dr. Hamilton said it is possible that these sprays in previous years may have prevented the ladybird beetles from developing in suffi-



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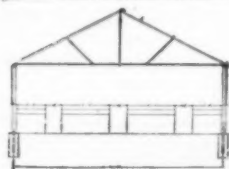
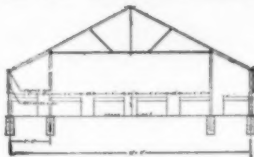
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cient numbers to be an important factor in destroying the scales.

Tom H. B. Boothe, Glen Ridge, N. J., chairman of the membership committee, said that the society now has nearly 450 members with 75 others in arrears for the current year. His committee is continuing its letter campaign to nurserymen and others who directly or indirectly have an interest in conserving, propagating, growing, showing or selling hollies. These are not "canned" or letters of a solicitous type. They merely state in a brief way the work being done in this field and invite them to become members if they so desire. 10,000 holly society seals have been sold since their first printing in December, 1951. The committee would welcome names of prospective members, concluded Mr. Boothe.

The morning's session ended with the presentation of a handsome watch to the retiring secretary-treasurer, Harry W. Dengler. In presenting the award on behalf of the holly society, Mr. Fenton stated that Mr. Dengler had served as chairman of the committee which helped to form the society and had served as the society's first vice-president. The watch was engraved: Harry Wm. Dengler, for outstanding service to

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These groups of celery plants are both 26 days old. They were grown at the same time in adjacent beds on the Warfield Farm, Severn, Maryland. The lower group was started in a manure-heated bed. The upper group, helped along by G-E heating cable, was ready for market much earlier—in plenty of time for top-price selling. You, too, can get to market earlier with the help of G-E heating cable sets.

G-E lead-sheath heating cable is laid 4 to 6 inches below the soil surface. It comes in convenient lengths, ready to plug-in, for 110 and 220 volts. A thermostat can be used to make the operation automatic. G-E heating cable sets are worth investigating. See your hardware or farm equipment dealer, or, write Section D75-121 Construction Materials Division, General Electric Company, Bridgeport 2, Connecticut, for further information.



You can put your confidence in—
GENERAL ELECTRIC

the Holly Society of America, 1953.

In the field of landscape design there is a big gap between evergreen plants from six feet up to the forest-size trees. Here, the American holly fits in very well, according to Raymond P. Korbobo, extension specialist of Rutgers University's department of ornamental horticulture.

As a clipped hedge, the American holly is superb, according to Mr. Korbobo. The natural form of holly makes it ideal for this purpose. The availability now of plants of one selection rather than mismatched seedlings enhances the use of holly for hedges.

Because of its many values and attractive appearance, it makes an excellent specimen tree. Behind a screen or a promontory, a handsome holly is a welcome surprise to the curious garden wanderer. Equally delightful is an unhidden holly specimen as a lawn tree backed up with a shrub border. Likewise, the American holly is excellent for breaking up long uninteresting areas. As a terminal feature in the garden, instead of a bench, birdbath or pool, an American holly is most acceptable.

In developing landscape plans, Mr. Korbobo said, the critical places are where vertical and horizontal lines hit. Here the shrubby hollies fit in nicely.

The hollies are nice for framing buildings and factories. They can be used close up or at driveway entrances. The American hollies are excellent for windbreaks and screens. Here, they can serve a dual purpose by providing cut sprays and wreaths for Christmas holidays, and they can be used for snowfences or for naturalizing on hillsides or large estates.

Mr. Korbobo recommended that the hollies be used also for arbors and espaliers.

Dr. Peter K. Nelson, Brooklyn

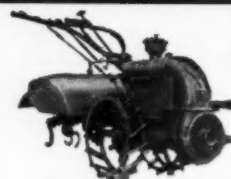
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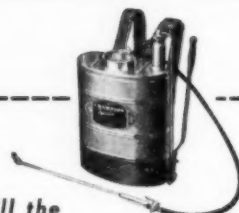
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INSTANT COW MANURE. 10c pkt. makes 1 gal. 6 doz. for \$3.60.

COMPOST. Cow manure and minerals. \$40.00 per ton.

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Botanic Garden, Brooklyn, N. Y., presented a brief progress report on his experiments with the embryo culture of holly seeds. Because holly seeds are slow to germinate, requiring at least two and usually three years, this delay is a nuisance to the holly hybridizer.

To speed up this progress the embryo, or the baby plant, is extracted from the seed and grown on agar cultures in sterilized test tubes. Dr. Nelson explained the delicate technique and problems involved. He exhibited small plants grown from extracted holly seed embryos and compared them with seedlings grown in the normal manner. The seedlings from the extracted embryos were larger than normal seedlings even though they were a full year younger.

Additional Presentations

Just before the close of the Friday program, the retiring secretary arose and remarked that events on the day's meeting were somewhat reminiscent of customs observed at Christmas in ancient Rome. Here it was considered the highest honor and a mark of great esteem and affection for friends to exchange wreaths of colorful holly, a practice which continues to this day. Earlier, he said, several members of our society were similarly honored. To Mrs. C. R. Wolf, and to President Wolf, on behalf of the Holly Society, Mr. Dengler presented a Christmas creche set of 20 nativity figures. These were all hand carved from holly wood by members of the John C. Campbell Folk School, Brasstown, N. C.

The fall, 1953, society meeting closed with explanations by Professor Clark of the many experiments now under way on holly by the New Jersey agriculture research station. Professor Clark then conducted the group through the station's experimental orchards. Here various fertilizer experiments were observed along with comparison and evaluation studies of the largest number of holly selections to be found in the United States.

IN THE November 15 issue, the Oak Dale Nursery was misplaced nearly 2,000 miles. The item should be corrected to read that Joseph J. Kasper, formerly of Prescott, Ariz., has purchased the stock and equipment of the Oak Dale Nursery, on Route 2 at Rock Hill, S. C., and will continue operation as Oak Dale Nursery. The original item placed the nursery in the state of Arizona.

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**• IT GRADES AND LEVELS • RAKES
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It eliminates most hand raking by its ability to perform 3 Big Jobs: (1) It Grades and Levels, (2) It Rakes Stones, (3) It Mulches the Soil. **And it does all of these jobs at a substantial saving over hand labor costs.**

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Trouble-free service without costly breakdowns is assured by the RE's rugged construction. Long-wearing teeth are made of heat-treated alloy spring steel, rigidly attached to carbon spring steel heads . . . easy to replace if necessary. Maximum working width is 8 feet. Raising, lowering and tilting of rake are controlled by the tractor operator, without leaving his seat.

Casters and wheels are available as optional accessories. Mounted on the rake frame, they regulate the penetrating depth of the teeth, and are especially useful in final raking operations where only a slight penetration is desired.



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MAKES SANDY SOIL MORE
COMPACT—LIGHTENS HEAVY CLAY
SOIL—CLEAN AND FREE FROM WEED-
SEEDS AND DISEASE SPORES

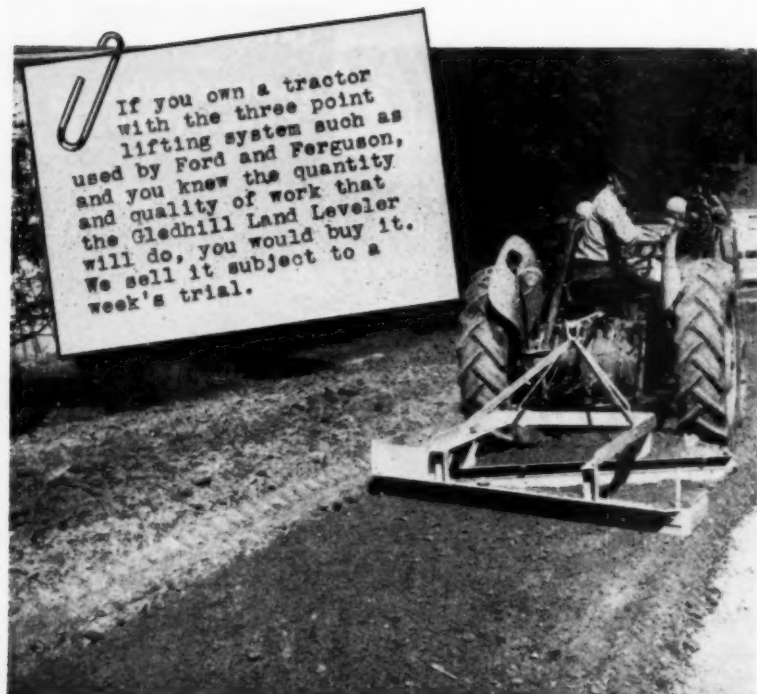


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[Continued from page 11]

not tell the whole story. A politely doubting gentleman from Glen Ellyn, Ill., who had received a circular from the nursery visited the shop for the first time one Sunday.

"Either you are a liar, or you have everything in the world in this shop," he said when he came in. When he left an hour later, he announced a little more timidly, "I do not think you have told us about half of the things you have."

Outside Advertising Help

Because Mr. Burger is a member of the Elgin chamber of commerce, he has another source of advertising that is both effective and inexpensive. The chamber of commerce has show windows in the heart of the business district which it makes available to various firms. For the past two years, Mr. Burger has been able to put a display in the window for two periods each year.

"Our chamber of commerce secretary is an enlightened man," Mr. Burger comments. "The firms who do business in the downtown district do not want or need the window space. Those who operate on the outskirts of town do need it, and the secretary makes the windows available to members who want the space and can use it. I pay \$25 a year for my membership," he said. "I could not come close to receiving that kind of advertising anywhere else for \$25. And I have had a number of customers who have come out or phoned me because of things they have seen in that display."

When customers come to the shop they are assured of one thing they are forever seeking in a traffic-congested city like Elgin: Plenty of free parking space. The area between the salesyard and the garden shop has been graveled, and there is space for 20 or more cars. To reduce congestion, the drive has been labeled as a 1-way drive, and it curves around the back of the shop and onto the highway again.

Customers who enter the drive are greeted by signs saying, "Yes, we are here. Please come in," and "The best people in the world pass through these doors." Inside the shop everything conceivable for lawn and garden can be found. Power clippers and power snowplows can be found in one section, lawn and porch furniture in another and in a third, seeds, birdhouses and books.

This is one of the secrets of the success of this garden center. Anything that can be used on the lawn

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Sturdily constructed, the MENNEPOT withstands hard handling without fear of breaking apart.

Stapled Bottom

Comes completely assembled . . . Potting can start immediately upon arrival—regardless of weather.

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The MENNEPOT is easy to handle, economical to use. The extremely light weight makes shipping costs negligible.

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The unique side-drainage feature in the MENNEPOT makes waterlogging impossible while standing in the salesyard.

Size 0

Top . . . 4 ins.
Bottom . . . 3 1/4 ins.
High . . . 4 ins.
Weight per 100
Regular 10 lbs., Heavy 25
Regular Weight Price
100 . . . \$2.75 1000 . . . \$25.00
Heavy Weight Price
100 . . . \$3.75 1000 . . . \$35.00

Size 1

Top . . . 6 ins.
Bottom . . . 5 ins.
High . . . 6 ins.
Weight per 100
Regular 15 lbs., Heavy 35
Regular Weight Price
100 . . . \$4.00 1000 . . . \$37.50
Heavy Weight Price
100 . . . \$5.25 1000 . . . \$50.00

Size 2

Top . . . 7 ins.
Bottom . . . 5 1/2 ins.
High . . . 8 ins.
Weight per 100
Regular 24 lbs., Heavy 55
Regular Weight Price
100 . . . \$4.50 1000 . . . \$42.50
Heavy Weight Price
100 . . . \$5.75 1000 . . . \$55.00

Size 3

Top . . . 8 1/4 ins.
Bottom . . . 6 1/4 ins.
High . . . 9 ins.
Weight per 100
Regular 30 lbs., Heavy 70
Regular Weight Price
100 . . . \$5.00 1000 . . . \$47.50
Heavy Weight Price
100 . . . \$6.25 1000 . . . \$60.00

Size 4

Top . . . 8 3/4 ins.
Bottom . . . 7 1/4 ins.
High . . . 9 ins.
PAN
Weight per 100
Regular 30 lbs., Heavy 70
Regular Weight Price
100 . . . \$5.00 1000 . . . \$47.50
Heavy Weight Price
100 . . . \$6.25 1000 . . . \$60.00

Size 5

Top . . . 12 ins.
Bottom . . . 10 ins.
High . . . 12 ins.
L.O. POT
Weight per 100 250 lbs.
20 . . . \$125.00 100 . . . \$27.50
500 . . . \$125.00 1000 . . . \$27.50
*Special for extra-heavy trees and large shrubs.

500 of a size taken 1000 rate in sizes 0-1-2-3-4. Regular-weight pots packed 100 and 200 per carton in sizes 1-2-3-4. Size 0, 250 only. Heavy pots are packed 100 per carton only in sizes 1-2-3-4. Size 0, 250 only. Size 5, 20 only. NO BROKEN CARTONS.

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or garden can be found inside. There is no need for a customer to go elsewhere for accessories.

"We do not feel that we really have to compete with hardware stores or department stores," Mr. Burger says. "We just ignore them. We charge about the same prices they do, and we have everything a gardener needs right here at one stop. In addition to this, we can answer any questions a customer may have to ask about gardening."

This last statement, Mr. Burger feels, explains why landscape men make successful garden shop operators. They know the answers to the questions that confront customers. When Mr. Brown comes in and asks what kind of bushes he should plant to cover a bare rock wall, or when Mrs. Smith asks what should be done with her roses to protect them until the winter has passed, the landscape man-garden shop owner is almost sure to know the answer. He has been planting in his area for years.

In his own case, Mr. Burger is well qualified to answer the questions of his customers. He was in the nursery and landscaping business for 22 years before he opened his garden shop in 1947. During that time he became familiar with the climate of northern Illinois. After he left college, he learned many new facts about those plants which will winterkill or those plants which will suffer most in the recurring frosts of the northern Illinois climate.

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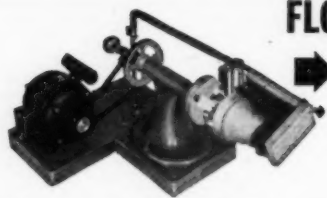
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good stead when customers have asked for advice on certain kinds of evergreens or on what to use for accents in planting. He can make recommendations from personal knowledge and experience.

Chose Location Carefully

The 6-acre tract on which the garden center and nursery stands was a cornfield when Mr. Burger purchased it. It had the singular advantage, he was able to determine, of being on the most heavily traveled highway in the Elgin area. Four good-size towns were less than 20 miles down the river, and, since the Fox river valley, in which Elgin is located, is a picturesque Sunday drive, a great many persons who were potential customers drove by the shop frequently.

Today the problem is slightly different. Newer roads along the river have cut sharply into the number of cars that pass the garden center on Sunday drives, hence there is more of a problem in bringing customers into the store for the first time. Mr. Burger feels that his signs, his column in the paper, his circulars and word-of-mouth advertising from satisfied customers are of tremendous help to him. But he is still seeking a method by which customers can be attracted to the store the year round.

This year he is trying Christmas promotion seriously for the first time. Along with Christmas trees and Christmas tree ornaments, he is adding a line of house decorations, including candles, cellulose foam and Christmas bells. Children's toys have been added, including games and larger toys.

Another thing the Burgers have tried is continual improvement of their shop. They have traveled widely to visit other shops, where they obtain suggestions of new and better ways to do things. As members of the American Association of Nurs-

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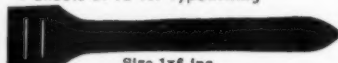
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erymen, the Illinois State Nurserymen's Association and the National Landscape Nurserymen's Association, they carry on a continuing exchange of ideas and methods with other nurserymen.

Other improvements have come with additions to floor space. When the nursery first started, the office was in the house. Mrs. Burger first had the idea of building the office where an arbor stood. Two rooms were constructed. An additional space soon was added to the side for seeds and fertilizer. Later a front room was added, and still later a mezzanine floor was constructed because the building was set on ground that slanted away from the highway and the Burgers recognized the value of setting the display windows high enough so that passing motorists could see into them.

Care was necessary here. The additions had to be planned so that the finished shop would not have a thrown-together look. By working with a friend who was an architect, Mr. Burger was able to solve the problem so as to present a harmonious-looking structure.

For anyone who is contemplating establishing a garden shop in connection with his nursery, Mr. Burger offers a lucid explanation of his reasons for starting his garden shop, along with some tips he has picked up during the years he has owned the shop.

"The point is that everybody in this business plans to retire someday. Unless a man has a son or somebody he has trained personally to pass his landscape business on to, it may be practically worthless. A garden shop, however, represents tangible assets which will always be of value.

Good Will Worth Little

"If you wish to retire as a landscape nurseryman," Mr. Burger says, "you will have two things for sale, your good will and your stock. These two things will probably not be worth much money."

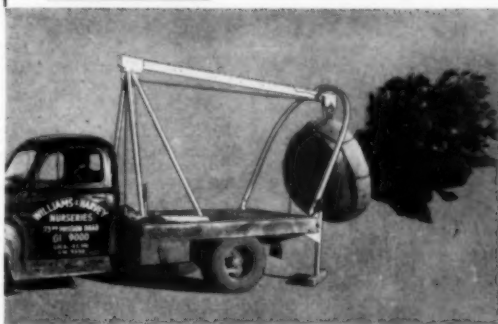
He mentioned a well-known landscaping firm in the midwest that has been able to pass its name down through four generations.

"Folks keep going back because they know the name," he says. "But if I sold my good will to John Jones, whom I do not know, how much would that mean to Mr. and Mrs. Smith, who know me but do not know who Jones is and probably do not care?"

The stock, he went on to say, is similarly of uncertain value. If it is

[Concluded on page 66.]

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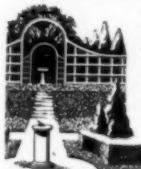
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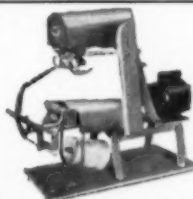
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Annual Index to Contents

VOLUME XCVII—January 1 through June 15, 1953

First Figure is issue number; figure after colon is page.

GENERAL

| | |
|--|---|
| All-America Flower Selections for 1953..... | 2:9 |
| All-America Vegetable Selections for 1953..... | 2:9 |
| A. A. N. Plan Begins Operation..... | 3:32 |
| Business Bureau Reports on Conditioners..... | 4:78 |
| Canada, Plants for..... | 8:14 |
| Chlorosis-Resistant Shrubs..... | 10:12 |
| Connecticut Nurseries..... | 5:45 |
| De Graaff, Jan, Lectures on Lilies..... | 7:34 |
| Dwarfing by Radiation..... | 11:31 |
| Freight Rate, Compare..... | 3:24 |
| Landscape Information Meeting..... | 4:34 |
| Landscapes, Tips for Better..... | 1:15; 4:16; 6:14; 8:11; 10:14 |
| Lilacs (part I)..... | 11:12 |
| Lily Awards, New..... | 3:50 |
| Merchandising, Dynamic..... | 7:7 |
| Metasequoia, Notes on..... | 8:15 |
| Nomenclature, Sound—A Business Asset..... | 8:13 |
| Nursery Trade Analysis, Release..... | 8:10; 9:12 |
| Patents, Plant..... | 1:48; 2:59; 8:44 |
| Pistachio Nut, Propagation of the..... | 2:10 |
| Plants for Decorating Blank Walls..... | 2:7 |
| Plants for Modern Homes, New..... | 2:60 |
| Plant Growth Laboratory..... | 5:73 |
| Post Office Raises Rates, Sets Packing Standards..... | 3:28 |
| Propagation in Moss..... | 7:54 |
| Propagation, Major Techniques in..... | 10:13 |
| Propagation, Outdoor, Under Constant Mist..... | 11:14 |
| Propagation, Pointers on..... | 1:13; 3:13; 5:14; 7:12; 9:10; 11:14 |
| Propagation with Plastic..... | 6:57 |
| Rhododendron Propagation..... | 9:10 |
| Soil Conditioner, Results of U. S. D. A. Tests on..... | 1:44 |
| Soil Conditioner Tests, Connecticut Reports on..... | 1:44 |
| Soil Sampler, New..... | 6:92 |
| South, Plants for the..... | 9:7; 10:15 |
| Standards Set for Advertising, Packing..... | 2:8 |
| Television Used by California Nurserymen..... | 9:9 |
| This Business of Ours..... | 1:28; 2:26; 3:22; 4:30; 5:26; 6:26; 7:30; 8:28; 9:24; 10:26; 11:22; 12:22 |
| Transplanter, 5-row..... | 11:10 |
| Tree Harvesting Machine..... | 6:71 |
| Tree Maintenance..... | 2:50; 5:46; 7:48; 11:27 |
| Why Not Open Evenings?..... | 8:12 |

COVER ILLUSTRATIONS

| | |
|--|-------|
| Acer Rubrum Columnare..... | 7:24 |
| Betula Papyrifera..... | 9:28 |
| Betula Populifolia (illus. in March 15 issue)..... | 9:6 |
| Caragana Maximowicziana..... | 2:32 |
| Cedrus Libani..... | 8:32 |
| Cercidiphyllum Japonicum..... | 12:27 |
| Evodia Daniellii..... | 11:23 |
| Hamamelis Vernalis..... | 4:32 |
| Hypericum Dawsonianum..... | 3:21 |
| Laburnum Watereri..... | 5:28 |
| Pseudolarix Amabilis..... | 10:28 |
| Symphoricarpos Chenaultii..... | 1:30 |

PLANTS

| | |
|---------------------------------|---|
| Acacia..... | 8:18 |
| Achillea..... | 2:18 |
| Acleisanthe..... | 5:22 |
| Alchemilla..... | 5:24 |
| Anchusa..... | 9:14; 11:20 |
| Androsace..... | 1:26 |
| Anemone..... | 4:20 |
| Anthericum..... | 1:18 |
| Aphyllanthes..... | 1:22 |
| Arnebia..... | 10:20 |
| Aster..... | 1:18; 3:14; 8:18 |
| Astrantia..... | 6:20 |
| Boltonia..... | 2:22 |
| Bulbocodium..... | 7:14 |
| Campanula..... | 1:20; 8:18; 9:20; 10:16 |
| Catananche..... | 9:16 |
| Clintonia..... | 10:16 |
| Codonopsis..... | 2:22 |
| Columbine..... | 5:16 |
| Coronilla..... | 9:14 |
| Coronilla..... | 2:22; 7:14 |
| Crambe..... | 3:14 |
| Crocus..... | 4:28 |
| Dracopcephalum..... | 4:24 |
| Edelweiss..... | 11:20 |
| Erigeron..... | 8:26 |
| Eriophyllum..... | 2:16 |
| Erythronium..... | 7:14 |
| Filipendula..... | 9:22 |
| Fritillaria..... | 8:24 |
| Geranium..... | 11:16 |
| Gerardia..... | 5:17 |
| Gilia..... | 8:22 |
| Herniaria..... | 1:22 |
| Heuchera..... | 7:14 |
| Incarvillea..... | 1:18 |
| Inula..... | 7:16 |
| Iris..... | 3:16; 11:18 |
| Krigia..... | 4:25 |
| Lallemantia..... | 6:20 |
| Lewisia..... | 8:18 |
| Linaria..... | 10:18 |
| Linum..... | 9:14 |
| Lychnis..... | 7:14 |
| Melampodium..... | 4:20 |
| Monardella..... | 2:20; 4:26 |
| Montbretia..... | 11:16 |
| Myosotis..... | 9:18 |
| Nemastylis..... | 2:16 |
| Omphalodes..... | 8:20 |
| Onosma..... | 2:16 |
| Penstemon..... | 9:18 |
| Peony..... | 11:16 |
| Phlox..... | 3:16; 9:20 |
| Physaria..... | 6:22 |
| Plant Notes Here and There..... | 1:18; 2:16; 3:14; 4:20; 5:16; 6:16; 7:14; 8:18; 9:14; 10:16; 11:16; 12:16 |
| Polygatum..... | 1:24 |
| Polygonatum..... | 2:24 |
| Potentilla..... | 11:16 |
| Rivina..... | 8:18 |
| Sabatia..... | 5:20 |
| Salvia..... | 1:18 |
| Salvia..... | 7:14; 11:16 |
| Saxifraga..... | 9:20 |
| Sisyrinchium..... | 3:18 |
| Sweet William..... | 10:22 |
| Thermopsis..... | 3:20 |
| Torch Lily..... | 1:24 |
| Tovara..... | 5:16; 11:16 |
| Veronica..... | 5:16; 11:16 |

INSECT AND DISEASE CONTROL

| | |
|---|-------|
| Aphis on Arborvitae..... | 2:48 |
| Beetle Quarantine..... | 9:41 |
| Damage to Red Pines..... | 7:45 |
| DDT and Mites..... | 2:66 |
| Greenhouse Pests, New Control Successful for..... | 6:80 |
| Holly Leaf Miner Controls..... | 10:33 |
| Holly Leaf Miner, New Sprays Control..... | 1:362 |
| Insect Control Effective..... | 8:16 |
| Lace Bug Controls..... | 10:33 |
| Locusts Due This Summer..... | 7:33 |
| Mites, New Chemicals for..... | 2:75 |
| Yellow Leaf Roll..... | 2:64 |

AUTHORS

| | |
|--|---|
| Camp, Wendell H.—Sound Nomenclature, A Business Asset..... | 8:13 |
| Chestnut, Charlie—Anybody Know What Day It Is?..... | 2:12 |
| A Triumph in Bookkeeping..... | 6:12 |
| Fillmore, Richard H.—Techniques in Propagation..... | 10:13 |
| Galle, Fred C.—Plants for the South..... | 9:7; 10:15 |
| Hemming, E. Sam—This Business of Ours..... | 1:28; 2:26; 3:22; 4:30; 5:26; 6:26; 7:30; 8:28; 9:24; 10:26; 11:22; 12:22 |
| Hilling, T.—Touring the South American Nurseries..... | 2:13 |
| Joley, L. E.—Propagation of the Pistachio Nut..... | 2:10 |
| Lewis, Clarence E.—Tips for Better Landscapes..... | 1:15; 4:16; 6:14; 8:11; 10:14 |
| Lipp, Lewis F.—New Plants Needed for Modern Homes..... | 2:60 |
| Propagation in Moss..... | 7:54 |
| Propagation with Plastic..... | 6:57 |
| Nisbet, Fred J.—Plants for Decorating Blank Walls..... | 2:7 |
| Why Not Open Evenings?..... | 8:12 |
| Raben, Harry—Dynamic Merchandising..... | 7:7 |
| Van Rensselaer, Maunsell—Notes on Metasequoia..... | 8:15 |
| Nurserymen Teach Home Gardeners on Television..... | 9:9 |
| Wells, James S.—Pointers on Propagation..... | 1:13; 3:13; 5:14; 7:12; 9:10; 11:14 |
| Whitcomb, W. D.—Effective Insect Control..... | 8:16 |
| Whitehouse, W. E.—Propagation of the Pistachio Nut..... | 2:10 |
| Wister, John C.—Lilacs (part I)..... | 11:12 |
| Wood, C. W.—Plant Notes Here and There..... | 1:18; 2:16; 3:14; 4:20; 5:16; 6:16; 7:14; 8:18; 9:14; 10:16; 11:16; 12:16 |
| Wysong, Noel—Tree Maintenance..... | 2:50; 5:45; 7:48; 11:27 |

MEETINGS

| | |
|---|------|
| Arizona Association of Nurserymen..... | 4:72 |
| Canadian Association of Nurserymen..... | 4:15 |

| | |
|---|------------|
| Connecticut Nurserymen's Association..... | 3:24 |
| Dade County Nurserymen's Association..... | 11:31 |
| Eastern Nurserymen..... | 3:9 |
| Florida A. A. N. Chapter..... | 12:8 |
| Florida Nurserymen and Growers Association..... | 12:7 |
| Georgia State Nurserymen's Association..... | 6:7 |
| Idaho Association of Nurserymen..... | 3:26 |
| Illinois State Nurserymen's Association..... | 3:7 |
| Indiana Arborists' Conference..... | 4:18 |
| Indiana Association of Nurserymen..... | 4:8 |
| Iowa Nurserymen's Association..... | 3:12 |
| Kentucky Nurserymen's Association..... | 4:14 |
| Long Island Nurserymen's Association..... | 2:56 |
| Lorain County Nurserymen's Association..... | 3:29 |
| Maryland Nurserymen's Association..... | 3:12 |
| Massachusetts Horticultural Society..... | 11:31 |
| Massachusetts Nurserymen's Association..... | 4:18 |
| Michigan Landscape Conference..... | 1:11 |
| Michigan Nurserymen's Association..... | 4:9 |
| Midwestern Chapter, National Shade Tree Conference..... | 6:11 |
| Minnesota State Nurserymen's Association..... | 1:9 |
| Nashville Association of Nurserymen..... | 12:32 |
| National Landscape Nurserymen's Association..... | 3:8 |
| Nebraska Association of Nurserymen..... | 1:12 |
| New England Nurserymen's Association..... | 5:7 |
| New Hampshire Plant Growers Association..... | 1:12; 6:48 |
| New Jersey Association of Nurserymen..... | 5:10 |
| New York State Arborists' Association..... | 6:10 |
| New York State Nurserymen's Association..... | 4:38 |
| North Carolina Association of Nurserymen..... | 3:8 |
| Ohio Nurserymen's Association..... | 4:10 |
| Oklahoma State Nurserymen's Association..... | 3:10 |
| Ornamental Growers' Association of Northern Illinois..... | 7:52 |
| Pennsylvania Nurserymen's Association..... | 5:13 |
| Plant Propagators Society..... | 1:10 |
| Rhode Island Nurserymen's Association..... | 6:8 |
| Southern Tree Conference..... | 9:8 |
| Tennessee Nurserymen's Association..... | 4:7 |
| Texas Rose Research Foundation..... | 12:11 |
| Virginia Nurserymen's Association..... | 5:9 |
| Western Association of Nurserymen..... | 3:11 |
| Western New York Nurserymen's Association..... | 4:41 |
| Western Pennsylvania Nurserymen's Association..... | 1:14 |
| Wisconsin Nurserymen's Association..... | 1:7 |

BOOK REVIEWS

| | |
|--|------|
| Anyone Can Grow Roses..... | 2:76 |
| Color in the Garden..... | 8:42 |
| Decorating with House Plants..... | 8:43 |
| Illustrated Guide to Trees and Shrubs..... | 8:42 |
| Modern Roses..... | 2:76 |
| New Illustrated Flora..... | 2:77 |
| Permanent Garden, The..... | 8:42 |
| Plant Anatomy..... | 8:42 |
| Soil Chemistry..... | 2:78 |
| Sunset Pruning Handbook..... | 2:79 |
| Weed Control..... | 8:43 |
| What to Make with Concrete..... | 8:42 |

OBITUARIES

| | |
|----------------------------------|-------|
| Adams, James W..... | 6:36 |
| Baruch, Dr. Herman Benjamin..... | 8:36 |
| Blauvelt, Dr. William E..... | 5:32 |
| Borsch, Fred J..... | 9:37 |
| Bosenberg, Carl A..... | 6:36 |
| Eddie, Henry Matheson..... | 3:25 |
| Ernst, Charles Edward..... | 3:25 |
| Fife, Jake..... | 3:25 |
| Fremouw, Abraham..... | 6:36 |
| George, Clinton P..... | 4:36 |
| George, James I..... | 9:36 |
| Halla, Mrs. Tina..... | 8:38 |
| Hanson, A. Ellis..... | 5:32 |
| Hetz, Charles W..... | 4:36 |
| Hoves, Wilbur B..... | 2:34 |
| Holm, E. P..... | 6:37 |
| Howell, Bruce..... | 9:37 |
| Husted, Percy..... | 9:36 |
| Hughes, William J..... | 8:36 |
| Mackey, Paschal E..... | 1:31 |
| Maloney, Albert E..... | 8:36 |
| Nicholson, Harry..... | 1:31 |
| Ruff, Max R..... | 12:28 |
| Schnake, John A..... | 1:31 |
| Schwartz, Harry K..... | 2:34 |
| Stark, Clay Hamilton..... | 12:28 |
| Steele, George A..... | 12:29 |
| Wedge, Ralph F..... | 2:36 |
| Welch, Eugene H..... | 2:34 |
| Weller, Peter..... | 12:29 |

Annual Index to Contents

Volume XCVIII—July 1 through December 15, 1953

First Figure is issue number; figure after colon is page.

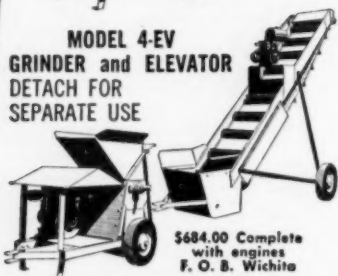
| | | | |
|---|---|--|--|
| GENERAL | | | |
| Botanic Garden, New York's..... | 2:10 | | |
| Broggi's: What Specialization Can Do for a Retail Nursery..... | 7:13 | | |
| Bureau Sets Standards for Bulb Ads..... | 4:17 | | |
| California, Plants for..... | 2:80 | | |
| Chestnut, Blight-resistant..... | 11:11 | | |
| Christmas Sales, Gear Nursery for..... | 11:11 | | |
| Cold Storage Improves Nursery Operation, Increases Profits..... | 11:10 | | |
| Contemporary Landscape Design..... | 9:15 | | |
| Discuss Soils at Rutgers Course..... | 10:8 | | |
| Ethics in the Nursery Business..... | 8:14 | | |
| Garden Shop Gears Operations to Customers' Needs and Wants..... | 10:9 | | |
| Landscapes, Tips for Better..... | 2:24; 4:13; 6:15; 8:15; 10:10; 12:12 | | |
| Larch, Golden, Praised..... | 12:12 | | |
| Lilacs (Part II)..... | 1:16 | | |
| Liquid Fertilizer Test..... | 8:49 | | |
| Manufacturing Sideline Keeps Nursery Active..... | 12:11 | | |
| Modern Home, Planting the..... | 2:25 | | |
| Ohio Research Projects, Report on..... | 9:9 | | |
| Patents, Plant..... | 2:90; 5:44; 8:41; 10:38; 11:60 | | |
| Picea Glauca Conica..... | 5:40 | | |
| Plastics in Outdoor Grafting of Conifers, Using..... | 8:13 | | |
| Promoting Nursery Sales..... | 9:14 | | |
| Propagating Ilex Opaca..... | 5:12 | | |
| Propagating Lilacs..... | 3:17 | | |
| Propagating Plastic Wigwam Aids in..... | 12:10 | | |
| Propagation of Oaks..... | 10:12 | | |
| Propagation, Pointers on..... | 1:14; 3:17; 5:12; 7:15; 9:13; 11:12 | | |
| Propagation under Mist, More About..... | 3:17; 11:12 | | |
| Rose Understocks..... | 9:56 | | |
| Soil Conditioner, Tests on..... | 9:11 | | |
| Soil Testing, Primer on..... | 4:16 | | |
| Spring Promotions Aid Fall Bulb Sales..... | 8:11 | | |
| Taxus Propagation..... | 2:119 | | |
| This Business of Ours..... | 4:28; 7:22; 9:30; 10:22; 11:26; 12:26 | | |
| Trees, Fashions in Shade..... | 4:10 | | |
| Trees, Flowering..... | 5:14 | | |
| Tree Maintenance..... | 2:84; 4:44; 11:42 | | |
| Unit Heaters as Replacements for Pipe Coils in Greenhouses..... | 8:10 | | |
| Zoning Case, Court Opinion in..... | 3:16 | | |
| COVER ILLUSTRATIONS | | | |
| Abies Koreana..... | 8:34 | | |
| Acer Griseum..... | 4:28 | | |
| Eunonymus Alaczi..... | 11:29 | | |
| Ilex Crenata Convexa..... | 1:26 | | |
| Ilex Crenata Microphylla..... | 12:23 | | |
| Kolopanax Pictus..... | 10:26 | | |
| Malus Purpurea Eleyi..... | 3:30 | | |
| Prunus Sargentii..... | 6:19 | | |
| Pseudotsuga Taxifolia..... | 5:23 | | |
| Sorbus Aucuparia..... | 7:32 | | |
| Styrax Japonica..... | 9:35 | | |
| PLANTS | | | |
| Achillea..... | 9:26 | | |
| Aconitum..... | 12:22 | | |
| Amorpha..... | 8:24 | | |
| Amsonia..... | 10:21 | | |
| Anchusa..... | 2:38 | | |
| Anthemis..... | 4:18 | | |
| Antirrhinum..... | 4:18 | | |
| Aquilegia..... | 3:20; 4:18 | | |
| Arenaria..... | 8:24 | | |
| Artemisia..... | 1:20 | | |
| Asters..... | 3:20; 9:26; 10:14 | | |
| Begonia..... | 12:14 | | |
| Camassia..... | 11:14 | | |
| Campanula..... | 2:32; 3:20; 8:22; 11:21 | | |
| Cerastium..... | 11:22 | | |
| Chrysanthemum..... | 5:26 | | |
| Cinquefoil..... | 3:20; 7:22 | | |
| Clematis..... | 3:22 | | |
| Codonopsis..... | 11:16 | | |
| Compositae..... | 1:20 | | |
| Corydalis..... | 12:16 | | |
| Proculus..... | 4:22 | | |
| Delphinium..... | 3:20; 9:18 | | |
| Dianthus..... | 9:20; 12:14 | | |
| Dictamnus..... | 3:20 | | |
| Digitalis..... | 12:21 | | |
| Doronicum..... | 2:38; 5:24 | | |
| Draba..... | 5:26; 10:26 | | |
| Eriogonum..... | 8:18 | | |
| Eucomis..... | 5:22 | | |
| Eupatorium..... | 8:18 | | |
| Gaillardia..... | 3:28; 9:18 | | |
| Galium..... | 1:18 | | |
| Gaura..... | 2:34 | | |
| Gentiana..... | 2:36 | | |
| Gillenia..... | 7:20 | | |
| Gypsophila..... | 3:28; 4:22; 7:20 | | |
| Hedysarum..... | 2:34 | | |
| Helianthus..... | 3:28 | | |
| Heliotropis..... | 3:26; 9:18 | | |
| Heliotropium..... | 4:18 | | |
| Hemerocallis..... | 3:24 | | |
| Heuchera..... | 3:22 | | |
| Hollyhocks..... | 3:24 | | |
| Iberis..... | 2:28; 10:10 | | |
| Iris..... | 3:24; 5:20; 7:28; 8:24 | | |
| Lepachys..... | 10:18 | | |
| Lilium..... | 12:18 | | |
| Linum..... | 9:24; 12:16 | | |
| Lithospermum..... | 11:24; 12:16 | | |
| Lobelia..... | 11:16 | | |
| Lunaria..... | 10:20 | | |
| Lygodium..... | 10:16 | | |
| Oxalis..... | 4:20 | | |
| Penstemon..... | 7:28 | | |
| Peony..... | 3:24 | | |
| Phlox..... | 3:24; 5:22 | | |
| Pinks..... | 3:26 | | |
| Plant Notes Here and There..... | 1:18; 2:28; 3:20; 4:18; 5:20; 6:20; 7:20; 8:18; 9:18; 10:14; 11:14; 12:14 | | |
| Plantago..... | 12:21 | | |
| Polemonium..... | 5:24 | | |
| Poppies..... | 3:26 | | |
| Primula..... | 10:14 | | |
| Romneya..... | 5:20 | | |
| Rubus..... | 7:26 | | |
| Saponaria..... | 1:22 | | |
| Scabiosa..... | 1:20 | | |
| Scorzonera..... | 4:24; 9:28 | | |
| Scutellaria..... | 11:20 | | |
| Sedum..... | 7:22 | | |
| Sempervivum..... | 6:20 | | |
| Sidalcea..... | 7:20 | | |
| Silene..... | 11:14 | | |
| Statice..... | 9:18 | | |
| Stenanthium..... | 7:22 | | |
| Tiarella..... | 5:22 | | |
| Tradescantia..... | 1:18 | | |
| Veronica..... | 12:20 | | |
| Verbascum..... | 7:28 | | |
| Viola..... | 3:28; 9:18; 10:16; 12:14 | | |
| Wahlenbergia..... | 4:24 | | |
| Weldenia..... | 4:24 | | |
| INSECT AND DISEASE CONTROL | | | |
| Antibiotics Attack Plant Diseases..... | 7:47 | | |
| Chlorosis, Iron Sequestrene in Treatment of..... | 1:14 | | |
| Florida Ends Quarantine..... | 10:39 | | |
| Insecticides, Report on..... | 8:52 | | |
| Mist Blower Developed..... | 10:37 | | |
| New Disease Control..... | 8:59 | | |
| Oak Leaf Blister..... | 9:38 | | |
| Oak Wilt Vector, Scientists Find Fly on..... | 5:68 | | |
| Quarantine Extended (Japanese Beetle)..... | 9:77 | | |
| Radiation, Study Pests by..... | 5:55 | | |
| Simple Procedures Reduce Plant Disease Losses..... | 4:12 | | |
| Termites as Tree Pests..... | 2:84 | | |
| Volatile Weed Killers..... | 8:64 | | |
| Weevil Attacks Taxus..... | 8:65 | | |
| AUTHORS | | | |
| Bilhuber, Valenta..... | * | | |
| Garden Shop Boasts Natural Setting..... | 2:26 | | |
| Broggi's: What Specialization Can Do..... | 7:13 | | |
| Garden Shop Gears Operations to Customers' Needs, Wants..... | 10:9 | | |
| Brierley, Phillip..... | | | |
| Study Describes Symptoms, Control of Rose Streak..... | 8:9 | | |
| Chestnut, Carl..... | | | |
| To the Vice-Pres. of the Convention..... | 2:14 | | |
| The Case of the Quick Turnover..... | 4:14 | | |
| Liver Spotted Dog; Lost Bushes; Dumb Nurseryman..... | 8:12 | | |
| Dengler, Harry W..... | | | |
| Varied Topics at Holly Meeting..... | 12:7 | | |
| Dikeman, William T.—Manufacturing Sideline Keeps Nursery Active..... | 12:11 | | |
| Donia, Cy..... | | | |
| Realistic Pricing Can't Be Done in Nurseries..... | 10:7 | | |
| Dowd, Daniel—Horticultural Congress Reviews Progress, Outlines Future Plans..... | 12:9 | | |
| Entenberg, Robert B..... | | | |
| Promoting Nursery Sales..... | 9:14 | | |
| Glick, D. Newton..... | | | |
| Contemporary Landscape Design..... | 9:15 | | |
| Hemming, E. Sam..... | | | |
| This Business of Ours..... | 1:20; 2:44; 3:40; 4:30; 5:28; 6:32; 7:30; 8:28; 9:30; 10:22; 11:26 | | |
| Jens, Leland—Ethics in the Nursery Business..... | 8:14 | | |
| Keshen, Albert..... | | | |
| Service to Customers Builds Sales..... | 4:9 | | |
| Spring Promotions Aid Fall Bulb Sales..... | 8:11 | | |
| Lewis, Clarence E.—Tips for Better Landscapes..... | 2:24; 4:13; 6:15; 8:15; 10:10 | | |
| McNitt, Victor J.—Plastic Wigwam Aids in Propagation..... | 12:10 | | |
| Mills, Joan Kilner..... | | | |
| Thousands Pay Tribute to Rose at Texas Festival..... | 8:7 | | |
| Nisbet, Fred J..... | | | |
| Fashions in Shade Trees..... | 4:10 | | |
| Flowering Trees..... | 5:18 | | |
| Ries, Victor—Ground Covers..... | 11:7 | | |
| Skinner, Henry T.—Propagation of Oaks..... | 10:12 | | |
| Teuscher, Henry—Using Plastic in Outdoor Grafting of Conifers..... | 8:13 | | |
| Turner, Frank—Report on Ohio's Research Projects..... | 9:9 | | |
| Wells, James S.—Pointers on Propagation..... | | | |
| Albuquerque Nurserymen's Association..... | 1:8 | | |
| Wister, John C.—Lilacs (Part II)..... | 1:16 | | |
| Wood, C. W.—Plant Notes Here and There..... | 1:18; 2:28; 3:20; 4:18; 5:20; 6:20; 7:20; 8:18; 9:18; 10:14; 11:14; 12:14 | | |
| Wyman, Donald—Planting the Modern Home..... | 2:25 | | |
| Wysong, Noel—Tree Maintenance..... | 2:84; 4:44; 9:12 | | |
| MEETINGS | | | |
| Alabama Nurserymen's Association..... | 1:8 | | |
| Albuquerque Nurserymen's Association..... | 10:82 | | |
| All-America Camellia Selections..... | 3:81 | | |
| All-America Rose Selections..... | 3:13 | | |
| American Holly Society..... | 12:7 | | |
| American Horticultural Society..... | 12:9 | | |
| American Nurserymen's Protective Association..... | 3:82 | | |
| Baby Ramblers Elect..... | 3:13 | | |
| Chicago Horticultural Society..... | 4:26 | | |
| Dallas, Nursery and Landscape Association of..... | 4:27 | | |
| Indiana Nut Growers Association..... | 6:34 | | |
| Kansas Association of Nurserymen..... | 6:9 | | |
| Louisiana State Horticultural Association..... | 1:15 | | |
| Mississippi Florists' and Nurserymen's Association..... | 3:36 | | |
| National Arborists Association..... | 6:88 | | |
| National Landscape Nurserymen's Association..... | 3:13 | | |
| National Shade Tree Conference (Western Chapter)..... | 1:13 | | |
| New Mexico Association of Nurserymen..... | 2:42 | | |
| North Jersey Nurserymen's Association..... | 3:32 | | |
| Northern Nut Growers Association..... | 7:50 | | |
| Nursery Association Secretaries..... | 3:81 | | |
| Shade Tree Conference..... | 6:8 | | |
| South Carolina Nurserymen's Association..... | 2:72 | | |
| Southern Nurserymen's Association..... | 6:12 | | |
| Texas Association of Nurserymen..... | 6:9 | | |
| Texas Landscape Association..... | 6:56 | | |
| Texas Rose Growers Association..... | 1:30 | | |
| Tucson Branch, Arizona Association of Nurserymen..... | 7:39 | | |
| Washington State Nurserymen's Association..... | 6:13 | | |
| West Virginia Nurserymen's Association..... | 6:46 | | |
| BOOK REVIEWS | | | |
| Azaleas and Camellias..... | 2:114 | | |
| Complete Book of Bulbs, The..... | 10:40 | | |
| Complete Book of the Gladiolus, The..... | 2:114 | | |
| Concise Encyclopedia of Favorite Flowers, The..... | 11:46 | | |
| Conway's Treasury of Flower Arrangements..... | 10:40 | | |
| Cyclamen Persicum, Its Natural and Cultivated Forms..... | 8:51 | | |
| Directory of American Horticulture, The..... | 11:47 | | |
| Fruit Production, Fundamentals of..... | 2:114 | | |
| Garden Enemies..... | 9:44 | | |
| Handbook of Plants of the Colorado Front Range..... | 11:46 | | |
| Herbs in the Garden..... | 10:41 | | |
| Hollies..... | 7:55 | | |
| How to Build Outdoor Furniture..... | 2:116 | | |
| How to Grow Fuchsias..... | 2:114 | | |
| Landscaping Your Home Ground..... | 5:46 | | |
| Landscape Flower Arrangements..... | 7:57 | | |
| Modern Gardening..... | 5:46 | | |
| Pageant of the Rose..... | 5:47 | | |
| Pasture Production and Management..... | 8:50 | | |
| Perennials for Every Garden..... | 2:116 | | |
| Period Flower Arrangement..... | 2:114 | | |
| Pesticide Handbook..... | 7:56; 2:116 | | |
| Philippine Orchids..... | 8:40 | | |
| Plant Diseases..... | 8:51 | | |
| Rock, Wall and Water..... | 8:52 | | |
| Styling Corsages with Garden Flowers..... | 2:115 | | |
| Trees..... | 8:51 | | |
| Trees and Trails..... | 7:56 | | |
| Trees of Your Town..... | 9:45 | | |
| Tropical Planting and Gardening..... | 7:57 | | |
| Vegetable Production..... | 2:115 | | |
| Wild Flowers of America..... | 9:44 | | |
| Wild Flower Studies..... | 5:47 | | |
| Western Fruit Gardening..... | 11:46 | | |
| Years in My Herb Garden, The..... | 8:50 | | |
| OBITUARIES | | | |
| Bartley, Ethel Ennis..... | 7:40 | | |
| Berkquist, Harold..... | 3:34 | | |
| Brand, Archie M..... | 4:29 | | |
| Clark, Walter B..... | 6:35 | | |
| Earsing, Raymond G..... | 6:36 | | |
| Eastwood, Alice..... | 10:36 | | |
| Field, Alan D., Sr..... | 3:42 | | |
| Gibson, Roy E..... | 10:35 | | |
| Harris, W. C..... | 11:30 | | |
| Hilborn, Ernest C..... | 6:36 | | |
| Holmes, Nathan F..... | 4:29 | | |
| Johnson, John R..... | 12:35 | | |
| Judson, Charles..... | 12:35 | | |
| Killian, J. Yates..... | 10:36 | | |
| Leonard, Mrs. John M..... | 3:34 | | |
| Locke, Walter F..... | 11:30 | | |
| Lundquist, Louis W., Sr..... | 6:37 | | |
| Lycan, Henry Willard..... | 7:40 | | |
| Nicolson, John W..... | 1:37 | | |
| Petrie, David C..... | 4:29 | | |
| Robinson, Francis A..... | 10:35 | | |
| Salome, William C..... | 3:34 | | |
| Weston, A. E..... | 6:35 | | |

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not sold, it becomes a liability because it costs money to dig it up, take it away and burn it. It may die; it may become too large. In the end, it is worth only what it can be sold for, and, if it cannot be sold, it becomes a liability.

"A garden shop inventory, however, is a tangible asset," he says. "It is always worth money. It can be moved about, and, if worse comes to worst, it can always be returned to the wholesaler for a refund."

He went on to give some suggestions for a prospective garden shop owner. "Use your own name for the firm name," he cautions. "Do not be too fancy. It causes too much confusion. When we started, this place was incorporated under the name, 'Valley Landscape Co.' and the garden shop was called the 'One Stop Shop.' It seemed like a good name, but too much trouble came from it.

Confusion in Calls

"Another garden shop was started in Elgin with a similar-sounding name. We used to receive calls for things he advertised, and he used to receive our calls. Now I can pick up the phone and say, 'Burger's,' and it is much simpler and more easily identifiable."

Another suggestion was the endorsement of the idea of slanting the products for sale to the wants of the customers. He cited the current craze for African violets. "We are always going through crazes," he says. "I sell packaged soil called African Violet soil. Women come in, and, when they see it, they want it. They are raising violets because Mrs. Grogan down the street is raising them, and they want to have better violets than she has.

"I tell them it is nothing but peat moss, a little soil and some liquid fertilizer. I tell them they can make it more cheaply and easily in their own home. But, since it is labeled African Violet soil, they must have it. And since they want it, I am willing to carry it."

Mr. Burger once again viewed his stock. "A garden shop is something a man can retire on," he concluded. "It represents security for the future and a year-round income for the present. If the shop is well kept and attractive, it is a good investment. And, as I mentioned before, it is the landscape nurseryman who knows the answers when customers begin to flood him with questions, and he knows which answers apply in his local area. These answers can be given accurately only by a nurseryman, not by a book."

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